

- Industrial Hygiene / IAQ
- > Hazardous Building Materials
- > Environmental Assessments
- > Laboratory Services & Training

May 7, 2012

Ms. Kimberly N. Tisa
U.S. Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code: SORR07-2
Boston, MA 02109-3912

RE: Response to Comments for the Self-Implementing On-Site Cleanup and Disposal Plan, PCB-Containing Caulk, Window Glazing, and Soil

903 Farmington Avenue Southington, Connecticut Eagle Project No. 11-015.14A

Dear Ms. Tisa:

Attached is the response to correspondence by Ms. Katherine Woodward dated May 4, 2012 following the review of the revised Self-Implementing On-Site Cleanup and Disposal Plan (SIP) for 903 Farmington Avenue located in Berlin, CT. The Notification and abatement specification have been revised in response to the comments. Should you have any further questions, please feel free to contact us. We are looking forward to your final approval of this Notification.

Sincerely,

Eagle Environmental, Inc.

Ashis Roychowdhury

**Executive Vice President** 

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# Response to EPA Comments – May 4, 2012 903 Farmington Ave, Berlin, CT

#### A. NOTIFICATION

1. Please see the photographs attached as Diagram 2-5 of the revised Notification depicting configuration of caulk/substrate joints.

#### 2. Page 9, Section 2.2.4

- a. Yes, these items are present. Table in Section 2.2.4 of the Notification has been modified to include this. Also, the corresponding table in Section 3, page 2 of the Technical Specification has been modified.
- b. Cleaning and remediation of the I-beams and lintels have been added in Section 3.6 D, page 15 of the Technical Specification.

#### 3. Page 11, Section 3, Item 3.c

Removal of Course 1 brick and mortar in contact with grey crack caulk has been added. This is now consistent with Section 3.4 B on page 14 of the Technical Specification.

4. Page 13, Section 3.2, Item 3

The removal of soil up to a depth of 4 inches has been included in this section.

#### 5. Building Figures

There were no caulks found on the doors. There was black foundation seam caulk that was sampled and analyzed as "None Detected" for PCB (sample #s 2/28 PCB 13, 14 & 15). These samples were listed in Diagram 2-1 (PCB-SO-1) and also listed in Table 1.1.1 in Appendix A.

#### **B. TECHNICAL SPECIFICATION**

- 6. Page 14
  - a. Section 3.4.B You are right. The reference has been corrected in Section 3.4.B.
  - b. Section 3.6.C
  - i) Your observation is correct. Concrete in contact with grey caulk will only be removed from Façade D and course 1 brick and mortar in contact with

- crack and seam caulk shall be removed from all the sides of the building except Façade C.
- ii) Item 3: We need to determine the most cost-effective and safest way to remove these materials. This will be explained in Contractor's Health & Safety Plan to be submitted later.

 $\label{lem:condition} $$ \Eagle-server\ \Description Avenue\ \Posses Eagle Response to 5-7-12. doc$ 

# SELF-IMPLEMENTING ON-SITE CLEANUP AND DISPOSAL PLAN FOR PCB-CONTAINING EXTERIOR WINDOW CAULK, WINDOW GLAZING COMPOUND, SEAM CAULK, AND SOIL

903 Farmington Avenue Berlin, Connecticut

> Town of Berlin 240 Kensington Road Berlin, CT

March 28, 2012 Revised: May 7, 2012

**EAGLE ENVIRONMENTAL, INC.** 531 North Main Street

Bristol, CT 06010



- Industrial Hygiene / IAQ
- Hazardous Building Materials
- > Environmental Assessments
- > Laboratory Services & Training

March 28, 2012 Revised: May 7, 2012

Ms. Kimberly N. Tisa/Ms. Katherine Woodward U.S. Environmental Protection Agency 5 Post Office Square, Suite 100 Mail Code: SORR07-2 Boston, MA 02109-3912

RE:

Self Implementing On Site Cleanup and Disposal Plan

PCB-Containing Exterior Window Caulk,

Window Glazing Compound, Seam Caulk, and Soil

903 Farmington Avenue Berlin, Connecticut Eagle Project #11-015.14A

Dear Ms. Tisa and Ms. Woodward:

Eagle Environmental, Inc. (Eagle) is submitting this <u>revised</u> Self Implementing On-Site Cleanup and Disposal Plan for PCB-containing exterior window caulk and glazing compound, seam caulk, and soil/gravel at the former Kensington Furniture Company Warehouse located at 903 Farmington Avenue in Berlin, Connecticut in accordance with the notification requirement Section 761.61(a) (3) of USEPA Regulation 40 CFR Part 761. The building is presently vacant and is slated for demolition without re-occupancy.

The original plan has been revised in response to EPA Comments for 903 Farmington Ave, Berlin, emailed Friday, May 04, 2012 11:13 AM by Ms. Katherine Woodward.

Should you have any questions with regard to the plan please contact the undersigned, Ashis Roychowdhury, at (860) 589-8257 x209. We are looking forward to your review and formal approval of this Plan.

Sincerely,

Eagle Environmental, Inc.

John Terrill

Sr. Environmental Consultant

Terrill (AK)

Ashis Roychowdhury

**Executive Vice President** 

Cc: Gary Trombley, CT Department of Environmental Protection

James Mahoney, Town of Berlin

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# SELF-IMPLEMENTING ON-SITE CLEAN UP AND DISPOSAL PLAN PCB-CONTAINING EXTERIOR WINDOW CAULK, WINDOW GLAZING COMPOUND, SEAM CAULK, AND SOIL FORMER KENSINGTON FURNITURE COMPANY WAREHOUSE 903 FARMINGTON AVENUE, BERLIN, CONNECTICUT

This Self-Implementing On-Site Cleanup and Disposal Plan (SIP) has been organized into the following sections:

#### Section 1: <u>Introduction & Background</u>

This section includes the project introduction, building description, and project objectives.

#### Section 2: <u>Site Characterization</u>

The Site Characterization section provides a summary of the sampling performed to delineate the nature and extent of PCB presence as required and in accordance with 40 CFR Part 761.61 (a) (3) (A-C). The section also includes the nature of the contamination including types of materials; a summary of procedures used to sample the source material, adjacent substrates, and the location and extent of the identified contaminated areas.

#### Section 3: Remediation Plan

The remediation Plan includes a discussion of how the remedial objectives defined in Section 1.2 shall be met and the remediation approach and the clean up criteria to be met. The remediation plan is submitted in accordance with 40 CFR Part 761.61 (a) (3) (D).

#### Section 4: Schedule and Plan Certification

Under this section, the proposed scheduling for implementing this phase of remediation work and reporting is provided. This section also includes the written certification signed by the owner of the property and the other responsible parties responsible for the remediation, clean up and disposal in accordance with 40 CFR Part 761.61 (a) (3) (E).

#### SECTION 1: INTRODUCTION & BACKGROUND

The Town of Berlin (Town) has retained Eagle Environmental Inc. (Eagle) to prepare a plan to comply with the United States Department of Environmental Protection (USEPA) requirements for notification of a Self-Implementing On-Site Cleanup and Disposal Plan (SIP) in accordance with USEPA Regulation 40 CFR 761.61 (a) (3) for the removal of PCB-containing exterior window frame caulk, exterior building seam caulk, and adjacent contaminated porous substrates and soil/gravel.

Window glazing compound containing less than fifty (50) ppm PCB and adjacent contaminated porous substrates will also be removed under this plan to accommodate State regulatory requirements. The site includes the former Kensington Furniture Company Warehouse located at 903 Farmington Avenue in Berlin, Connecticut (subject site).

During the course of the site characterization, caulks with concentrations of polychlorinated biphenyl (PCB) in excess of fifty (50) parts-per-million (ppm) were identified at the exterior metal window frame caulk (grey) and at exterior building seam caulk (grey) including the foundation seams, wall seams and cracks, an expansion joint, metal lintel, and I-beams.

PCB greater than one (1) ppm but less than fifty (50) ppm was identified in window glazing compound on exterior metal window sashes. PCB greater than fifty (50) ppm was identified in the brick/mortar and concrete adjacent to the caulk around exterior windows and also in building joints, seams, and cracks. PCB greater than one (1) ppm but less than fifty (50) ppm was identified in five (5) localized areas of exterior soil/gravel.

The owner intends to remove the existing caulk and glazing compounds and contaminated porous substrate materials and soil prior to the demolition of the building. This work will include the removal of the regulated unauthorized PCB window caulk, the excluded window glazing compound and all contaminated (greater than one (1) ppm PCB) porous substrate materials and soil/gravel.

As the building is currently vacant, the contracting and implementation of this PCB removal and disposal project will proceed upon approval of the Plan. A Site Location Plan (SP-1) is attached as Diagram 1-1.

#### 1.1 **Building Description**

The subject building located at 903 Farmington Avenue in Kensington, Connecticut is a single story steel and masonry structure with flat roofs. The structure was reportedly constructed in 1948 and is approximately 19,700 square feet. The mechanical equipment consists of an oil fired tube boiler with a steam fired radiant system with recessed cast iron radiators. The interior walls and ceilings are constructed of both two coat plaster on metal lath and of sheetrock and joint compound construction. The window frames and sashes are of metal construction. The doors and door frames are of metal and wood construction. The floors are finished with various types of resilient flooring. The exterior facades are clad with both brick and concrete block. Please see building floor plan and work area diagram in Figure 1-2 (BP-1). The building is presently vacant and is slated for demolition without re-occupancy.

#### 1.2 Project Objectives

The objective of the remediation work is to remove PCB containing exterior window caulk, window frames and seam caulk containing greater than fifty (50) ppm PCB as "PCB Bulk Product Waste".

Substrates including brick, mortar, and concrete containing greater than or equal to fifty (50) ppm PCB or contaminated by greater than or equal to fifty (50) ppm PCB will be removed and disposed of as PCB Remediation Waste greater than fifty (50) ppm. Steel lintels and I-beams are assumed to contain greater than fifty (50) ppm and will be cleaned.

Window glazing compounds and window sashes greater than one (1) but less than fifty (50) ppm PCB will be removed as PCB Remediation Waste less than fifty (50) ppm.

Substrates including brick, mortar, and concrete containing PCB greater than one (1) ppm but less than fifty (50) will be removed and disposed of PCB Remediation Waste less than fifty (50) ppm.

Soil in five (5) limited exterior areas that were found to contain PCB greater than one (1) but less than fifty (50) ppm will be removed and disposed of as PCB Remediation Waste less then fifty (50) ppm.

Refer to Appendix D for the performance specifications to be implemented by the abatement contractor.

#### **SECTION 2: SITE CHARACTERIZATION**

This section provides a summary of the sampling performed to delineate the nature and extent of PCB presence as required and in accordance with 40 CFR Part 761.61 (a) (3) (A-C). The section also includes the nature of the contamination including types of materials; a summary of the standard procedures used to sample the source materials and adjacent porous substrates (brick/mortar, concrete, soil/gravel), and the location and extent of contaminated materials.

A phased sampling strategy was executed to assess source materials and adjacent porous substrates and soil. The initial site characterization of source materials, including caulk and glazing compounds, was performed by Eagle Environmental, Inc. of Bristol, Connecticut (Eagle) on December 8, 2010.

Eagle conducted sampling of soil and adjacent porous exterior substrates, including brick/mortar and concrete, on April 18 and May 9, 2011. Additional sampling of source, substrate materials, and soil was conducted by Eagle on February 28 and March 6, 2012.

Diagrams depicting the sampling locations of source materials, adjacent porous substrates and soil are attached as Diagram 2-1 (PCB-SO-1), Diagram 2-2 (PCB-SU-1), and Diagram 2-3 (PCB-SL-1) respectively.

#### 2.1 Sample Collection and Analysis

#### Sampling of Source Material

Sampling of source materials including caulks and glazing compounds was conducted by Eagle representatives Aaron Hatcher, on December 8, 2010, and by John Terrill, on February 28, 2012 in accordance with 40 CFR 761 Subpart N.

Prior to sample collection, the sampler donned disposable nitrile gloves and other PPE as required. Sample collection involved removal of bulk source materials using clean knife or scraper. The knife or scraper utilized to collect samples was washed with soap and water and then decontaminated using hexane between successive sampling to avoid cross contamination of samples.

Bulk samples of source materials were collected, placed in clean, labeled four (4) ounce glass jars, sealed with a Teflon lined cap, and delivered to the laboratory under proper chain of custody.

The samples were stored and transported in a cooler with ice packs until acceptance by the laboratory. All samples collected were transmitted to Phoenix Environmental Laboratories, Inc. of Manchester, CT under proper Chain-of-Custodies. Samples were extracted using USEPA Method 3540C (Soxhlet Extraction) and analyzed for PCB using USEPA Method SW846 8082.

The concentrations of PCB in the source samples are summarized below:

- Grey caulk on exterior metal window frames: 4.8 to 52,000 ppm;
- Grey caulk at foundation seams, expansion joints, and cracks in exterior walls: 5.4 to 38,000 ppm;
- Grey glazing compound on exterior metal window sashes: None Detected (ND) to 2.4 ppm; and,
- Black foundation seam caulk: ND.

The sample numbers, locations, material description, and analytical results are summarized in Table I. Table I, sample results, and chain of custody forms are attached as Appendix A. Sample locations are indicated in Appendix A and Diagram 2-1 (PCB-SO-1) attached.

#### Sampling of Porous Substrates

Sampling of porous substrates adjacent to caulks containing PCB included brick/mortar, concrete, and asphalt.

Eagle representative, Aaron Hatcher, conducted the initial substrate sampling on April 18, 2011. Eagle representatives, Ben Silverman and James Webb, conducted additional sampling on May 9 and June 2, 2011 following the procedures outlined in US EPA "Draft Standard Operating Procedures for Sampling Concrete in Field" (dated December 30, 1997).

Eagle representative John Terrill conducted additional substrate sampling on February 28 and March 6, 2012 following the procedures outlined in US EPA "Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs) Revision 4, May 5, 2011" and 40 CFR 761 Subpart N.

#### Course 1 Sampling

Prior to sample collection, the sampler donned disposable nitrile gloves and other PPE as required. A set of substrate samples were collected at a location approximately zero (0) to one-half (1/2) inches from pre-existing caulk lines to a depth of approximately one-half (1/2) inch using a mechanical hammer drill. These samples were called "Course 1" samples.

Course 1 sampling involved the complete removal of bulk product materials (source materials) at sampling locations using hand tools. The intent was to ensure complete removal of source material prior to sampling adjacent surfaces. Once removal of the source material was performed, the porous surfaces were cleaned using a hard bristle brush and the surface was rinsed with water and allowed to dry. Holes were drilled into the substrate to obtain enough material for analysis. The drill bit was washed with soap and water and then decontaminated using hexane between successive samplings.

The concentrations of PCB in the Course 1 substrate samples are summarized below:

- Exterior brick adjacent to metal window frame caulk: ND to 160 ppm;
- Exterior mortar adjacent to metal window frame caulk: ND to 320 ppm;
- Exterior brick adjacent to foundation seam caulk: not sampled see course 2 results below (course 1 brick adjacent to foundation seam caulk was not sampled because it was determined that the brick would have to be removed in order to remove the source and residual foundation seam caulk);
- Exterior mortar adjacent to foundation seam caulk: ND to 25 ppm;
- Exterior concrete adjacent to foundation and expansion seam caulk Façade D: 69 ppm;
- Exterior concrete adjacent to foundation and expansion seam caulk Façade B: ND;
- Exterior asphalt adjacent to foundation seam caulk: ND to 0.69 ppm;
- Exterior brick adjacent to expansion joint caulk: not sampled see course 2 results below (course 1 brick adjacent to expansion joint caulk was not sampled because it was determined that the brick would have to be removed in order to remove the source and residual expansion joint caulk);

- Exterior mortar adjacent to expansion joint caulk: not sampled see course 2 results below (course 1 mortar adjacent to expansion seam caulk was not sampled because it was determined that the mortar would have to be removed in order to remove the source and residual expansion joint caulk); and,
- Steel lintels and I-beams adjacent to seam caulk: not sampled, assumed greater than fifty (50) ppm PCB.

The sample numbers, locations, material description and analysis results are summarized in Table 2.1.2. The summary table, sample results and chain of custody forms are attached as Appendix B. Diagram 2-2 (PCB-SU-1) identifies sample locations.

#### Course 2 Sampling

A second set of substrate samples were collected at a location approximately four and one-half (4-1/2) inches from the pre-existing source or just beyond the first vertical mortar line for brick/mortar, and approximately four and one-half (4-1/2) inches from the pre-existing source for concrete. These samples were called "Course 2" samples. The samples were collected to a depth of approximately one-half (1/2) inch using a mechanical hammer drill to obtain enough material for analysis. The drill bit was washed with soap and water and then decontaminated using hexane between successive sampling.

The substrate samples were stored and transported in a cooler with ice packs until acceptance by the laboratory. All samples collected were transmitted to Phoenix Environmental Laboratories, Inc. of Manchester, CT under proper Chain of Custodies. Samples were extracted using USEPA Method 3540C (Soxhlet Extraction) and analyzed for PCB using USEPA Method SW846 8082.

The concentrations of PCB in the Course 2 substrate samples are summarized below:

- Exterior brick adjacent to metal window frame caulk on Facades A and D: ND:
- Exterior mortar adjacent to metal window frame caulk on Facades A and D: ND;
- Exterior brick adjacent to metal window frame caulk on Façade B: ND to 19 ppm;
- Exterior mortar adjacent to metal window frame caulk on Façade B: ND to 0.86 ppm;
- Exterior brick adjacent to foundation seam caulk: ND;
- Exterior mortar adjacent to foundation seam caulk: ND;
- Exterior concrete adjacent to foundation seam caulk: ND

The sample numbers, locations, material description and analysis results are summarized in Table II. Table II, sample results, and chain of custody forms are attached as Appendix B. Sample locations are indicated in Diagram 2-2 (PCB-SU-1).

#### Course 3 Sampling

A third set of substrate samples were collected at a location approximately eight and one-half (8-1/2) inches from the pre-existing source or just beyond the second vertical mortar line for brick/mortar. These samples were called "Course 3" samples. The samples were collected to a depth of approximately one-half (1/2) inch using a mechanical hammer drill to obtain enough material for analysis. The drill bit was washed with soap and water and then decontaminated using hexane between successive sampling.

The substrate samples were stored and transported in a cooler with ice packs until acceptance by the laboratory. All samples collected were transmitted to Phoenix Environmental Laboratories, Inc. of Manchester, CT under proper Chain of Custodies. Samples were extracted using USEPA Method 3540C (Soxhlet Extraction) and analyzed for PCB using USEPA Method SW846 8082. The concentrations of PCB in the Course 3 substrate samples are summarized below:

- Exterior brick adjacent to metal window frame caulk on Façade B: ND: and
- Exterior mortar adjacent to metal window frame caulk on Façade B: ND.

The sample numbers, locations, material description and analysis results are summarized in Table II. Table II, sample results, and chain of custody forms are attached as Appendix B. Sample locations are indicated in Diagram 2-2 (PCB-SU-1).

A detailed drawing indicating the substrate sampling protocol (PCB-D) has been attached as Diagram 2-4.

#### Sampling of Exterior Soil

The initial sampling of exterior soil was conducted at the west side (Area 1) of the building by Eagle Environmental representative, James Webb, on April 18, 2011.

The soil samples were collected along co-linear grid lines at eight (8) inches, sixteen (16) inches, and twenty-four (24) inch from the exterior building foundation. One (1) composite sample of soil was prepared at each of these intervals from a set of three (3) sub-samples distributed over the front length of the building. The sample collection tool was washed with soap and water and then decontaminated using hexane between successive sampling.

Additional sampling to characterize soil/gravel along the south side of the building (Areas 2 through 7) was conducted on February 28, 2012 by Eagle representative, John Terrill, following the procedures outlined in 40 CFR 761 Subpart N.

A grid plot consisting of approximately three (3) meter grid intervals was laid out over the soil sampling areas. Sub-samples of the soil were collected at each grid point to a depth of approximately four (4) inches below the surface. Six (6) adjacent (sub) samples were composited and submitted to the laboratory as a single sample. The area composited into a single sample consisted of six (6) grid points, with three (3) co-linear grid points bounding the sides parallel to the building and two (2) grid points bounding the sides perpendicular to the building. The approximate area encompassed by each composite sample was twenty-seven (27) square meters.

The reported laboratory results for the composited samples were multiplied by the number of sub-sampled comprising the composited sample to calculate the "corrected results" in order to compensate for potential dilution resulting from the compositing procedure.

A garden hand spade was used to loosen the soil. Tools were washed with soap and water then decontaminated using clean hexane between each set of composite samples to avoid cross contamination. Disposable plastic scoops were used to collect the samples.

Prior to sample collection, the sampler donned disposable nitrile gloves and other PPE as required. Each component subsample comprising the composite sample was collected as described above. The subsamples were thoroughly mixed to result in a visibly homogenous composite sample. One scoop of the composite sample were placed in a labeled, clean, four (4)

ounce glass jar and sealed with a Teflon-lined cap for submittal to the laboratory. The scoops and gloves were disposed of after each composite sample collection avoid cross contamination.

Samples were stored and transported in a cooler with ice packs until acceptance by the laboratory. All samples collected were transmitted to Phoenix Environmental Laboratories, Inc. of Manchester, CT under proper Chain of Custodies. Samples were extracted using USEPA Method 3540C (Soxhlet Extraction) and analyzed for PCB using USEPA Method SW846 8082.

The "corrected results" for the PCB in Soil samples are summarized below:

- Exterior Soil Composite Sample in Area 1 @ 8": ND;
- Exterior Soil Composite Sample in Area 1 (a) 16": ND;

- Exterior Soil Composite Sample in Area 1 (a) 16": ND; Exterior Soil Composite Sample in Area 1 (a) 24": ND; Exterior Gravel Composite Sample in Area 2: 1.98 ppm; Exterior Gravel Composite Sample in Area 3: ND; Exterior Soil Composite Sample in Area 4: 3.24 ppm; Exterior Soil Composite Sample in Area 6: 3.06 ppm; and,
- Exterior Soil Composite Sample in Area 7: 10.2 ppm.

The sample numbers, locations, material description and analysis results are summarized in Table III. Table III, sample results, and chain of custody forms are attached as Appendix B. Sample locations are indicated in Diagram 2-3 (PCB-SO-1).

#### 2.2 **Site Characterization**

The caulk and glazing sources, the porous substrates, and the soils are characterized in the following sections based on conclusions drawn from the analytical results and site observations. Window glazing compound (and associated sashes) will be handled and disposed of as if they were PCB Remediation Waste less than fifty (50) ppm to simplify waste classification, accommodate state regulatory requirements, and facilitate remediation.

#### Characterization of Source Materials 2.2.1

A summary of the characterization of source materials containing PCB greater than one (1) ppm is presented below:

- Grey window glazing compound on (and including) exterior steel window sashes: PCB Remediation Waste less than fifty (50) ppm;
- Grey caulk on (and including) exterior metal window frames: Mixed Regulated Asbestos PCB Bulk Product Waste;
- Grey caulk on exterior foundation and wall seams and cracks: Mixed Regulated Asbestos - PCB Bulk Product Waste; and,
- Grey caulk on exterior expansion joint: Mixed Regulated Asbestos PCB Bulk Product Waste.

#### 2.2.2 Characterization of Substrate Materials

Brick, mortar, and concrete greater than or equal to fifty (50) ppm PCB will be disposed of PCB Remediation Waste greater than fifty (50) ppm.

Brick and mortar containing PCB greater than one (1) but less than fifty (50) that is in contact with caulk containing greater than or equal to fifty (50) ppm PCB will be assumed to be contaminated and will be disposed of PCB Remediation Waste greater than fifty (50) ppm to negate the need for residual source caulk cleaning and to facilitate the remediation.

Non-porous steel lintels and I-beams in contact with caulk greater than fifty (50) ppm will be cleaned to a criteria of less than ten (10) micrograms per one-hundred (100) square centimeters.

A summary of the characterization of porous substrates in contact with sources containing PCB greater than one (1) ppm is presented below:

Course 1 brick and mortar in contact with grey exterior window caulk: Mixed Regulated Asbestos – PCB Remediation Waste greater than fifty (50) ppm; Course 1 brick and mortar in contact with grey exterior foundation and seam caulk: Mixed Regulated Asbestos – PCB Remediation Waste greater than fifty

Course 1 concrete in contact with grey foundation seam caulk on Side D (the concrete in contact with the foundation seam caulk on Side B is not contaminated); Mixed Regulated Asbestos – PCB Remediation Waste greater than fifty (50) ppm;

Course 1 brick, mortar, and concrete in contact with grey exterior expansion joint caulk: Mixed Regulated Asbestos – PCB Remediation Waste greater than fifty

(50) ppm; and, Course 2 brick and mortar adjacent to grey exterior window frame caulk on Side B: PCB Remediation Waste less than fifty (50) ppm.

#### Characterization of Exterior Soil 2.2.3

A summary of the characterization of soil containing PCB greater than one (1) ppm is presented below:

Exterior Soil/Gravel in Areas 2, 4, 5, 6, and 7: PCB Remediation Waste less than fifty (50) ppm.

#### Summary of Site Characterization 2.2.4

A summary of the site characterization including types of source materials, associated substrates, and quantities is presented in Table 2.2.4 below:

Source Material	Locations	PCB ppm	Quantity	Associated Substrate	PCB ppm (designation)	Quantity
Grey window glazing compound	Exterior metal window sashes	<50	329 LF	Metal/glass sashes	<50	47 sashes
Grey window	Exterior metal window frames Facades A and D	≥50	127 LF	Brick/Mortar	Course 1: ≥50 Course 2: ND	127 LF
frame caulk	Exterior metal window frames Façade B	≥50	12 LF	Brick/Mortar	Course 1: ≥50 Course 2: <50 Course 3: ND	12 LF
	Foundation seams Facade B	≥50	12 LF	Concrete	Course 1: ND	N/A
Grey foundation seam caulk	Foundation seams Facade D	>50	50 48 LF	Concrete	Course 1: ≥50 Course 2: ND	119 LF
Scam caurk	Foundation seams Facades B and D	≥50		Brick/Mortar	Course 1: ND	24 LF
Grey wall	Exterior walls Facades A, B and D ≥50			Brick/Mortar	Course 1: ≥50 Course 2: ND	26 LF
seam/crack caulk		49 LF	Steel lintels/I- beams	Assumed ≥50	23 LF	

Source Material	Locations	PCB ppm	Quantity	Associated Substrate	PCB ppm (designation)	Quantity
Grey	Expansion joint Façade D	≥50	1 LF	Concrete	Course 1: ≥50 Course 2: ND	1 LF
expansion joint caulk	Expansion joint Façade D	≥50	20 LF	Brick/Mortar	Course 1: ≥50 Course 2: ND	40 LF
	Façade D, Area 2				< 50	70 CF
	Façade D, Area 4				< 50	70 CF
Soil/Gravel	Façade D, Area 5			Soil/Gravel	< 50	70 CF
	Façade D, Area 6				< 50	70 CF
	Façade D, Area 7				< 50	70 CF

Disposable cleaning and abatement equipment, tools, and supplies such as containment barriers, rags, disposable protective clothing, etc. used in the remediation of PCB Bulk Product Wastes, Mixed Regulated Asbestos – PCB Bulk Product Waste, or PCB Remediation Waste greater than or equal to fifty (50) ppm shall be handled and disposed of as Mixed Regulated Asbestos – PCB Remediation Waste greater than fifty (50) ppm.

Disposable cleaning and abatement equipment, tools, and supplies such as containment barriers, rags, disposable prottective clothing, etc. used in the remediation of the window glazing compounds and sashes, the course 2 brick and mortar on Side B of the building, and the soil may be disposed of as PCB Remediation Waste less than fifty (50) ppm.

#### **SECTION 3 – REMEDIATION PLAN**

The work described in this SIP shall meet the objectives identified in section 1.2 Project Objectives in accordance with 40 CFR Part 761. The remediation work shall be performed to ensure compliance with EPA Toxic Substance Control Act (TSCA) requirements and protect both public health and the environment.

Materials classified as PCB Bulk Product Waste and PCB Remediation Waste will be properly removed and disposed of in compliance with federal and state regulatory requirements. For the purposes of this section, materials classified as PCB Bulk Product Waste will include PCB Remediation Waste greater than or equal to fifty (50) ppm to simplify the characterization of the waste streams with regard to handling, transportation, and disposal requirements.

The proposed remediation activities to be performed by the remediation contractor shall include the following:

- 1. Site preparation and controls to facilitate remediation of PCB;
- 2. Health and Safety in accordance with Occupation Safety and Health Administration (OSHA) requirements;
- 3. Removal and off-site disposal of the following materials as Mixed Regulated Asbestos PCB Bulk Product Waste from all locations identified on the Remediation Plans:
  - a) Grey window caulk associated with (and including) exterior metal window frames on sides A, B and D;
  - b) Grey seam caulk associated with exterior foundation seams, exterior wall seams and cracks, and exterior expansion joint on sides A, B and D;
  - c) Course 1 brick and mortar in contact with grey window caulk; grey seam and crack caulk; and grey expansion joint caulk on sides A, B and D;
  - d) Course 1 concrete in contact with grey foundation seam caulk and course 1 concrete in contact with expansion joint caulk on Side D.
- 4. Removal and off-site disposal of the following materials as PCB Remediation Waste less than fifty (50) ppm from all locations identified on the Remediation Plans:
  - a) Grey glazing compound associated with (and including) exterior metal window sashes;
  - b) Course 2 brick and mortar adjacent to grey window frame caulk on Side B: and.
  - c) Exterior soil/gravel from Areas 2, 4, 5, 6 and 7.
- 5. Cleaning of steel lintels and I-beams.
- 6. Recordkeeping and distribution as required in accordance with 40 CFR part 761.125 (c) (5).

Remediation activities to be performed by others shall include the following:

- 1. Monitoring remediation activities as Owner's representative shall be performed by Eagle.
- 2. Collection of verification soil samples in accordance with subpart O of 40 CFR Part 761 for PCB analysis shall be performed by Eagle Environmental, Inc.

3. Demolition of the building shall be performed by Owner's general trade contractor under separate contract following PCB and asbestos remediation.

Prior to abatement and remediation activities, site preparation and controls shall be established. PCB Bulk Product Waste, Mixed Regulated Asbestos - PCB Bulk Product Waste (and PCB Remediation Waste containing greater than fifty (50) ppm) will be removed and transported offsite for disposal at a hazardous waste landfill permitted by EPA under Section 3004 of RCRA per 40 CFR 761.62 or at a State landfill authorized under Section 3006 of RCRA.

PCB Remediation Waste containing less than fifty (50) ppm of PCB will be transported to a state-approved solid waste disposal facility. PCB Remediation Waste less than fifty (50) ppm will be removed in accordance with the requirements of this Self-Implementing On-Site Cleanup and Disposal Plan in accordance with 40 CFR 761.61.

#### 3.1 Site Preparation and Controls

The work shall be performed in accordance with the attached performance based technical specification section included in Appendix D. Prior to initiating PCB Removal the following site controls will be implemented.

- 1. The Remediation Contractor shall prepare a Health & Safety Plan (HASP) specific to the site and work activities to be performed (Appendix E). All workers shall follow applicable federal and state regulation with regard to work activities, including but not limited to OSHA regulation including personal protection and respiratory protection requirements.
- 2. Work zones shall be established in accordance with technical specification to include abatement zone, decontamination zone, and support zone. A regulated area surrounding the section of the building under construction will be established with orange construction fencing. The remediation work may be performed from inside or outside of the building, whichever proximity offers the greatest advantage for removal, but all removal (with the exception of the soil removal) shall be performed within containment barrier.
- 3. Window systems, caulks, and substrates scheduled for remediation will be sealed from the inside with two (2) layers of 6-mil polyethylene sheeting (or equivalent) as "isolation" barriers.
- 4. The ground surface shall be protected from contamination by covering it with two (2) layers of six (6)-mil polyethylene sheeting (or equivalent) at least ten feet (10) feet from the exterior wall and one (1) foot up the wall (ground cover is not required for soil remediation).
- 5. The building is presently vacant and will not be reoccupied prior to demolition. To ensure that the work will present no risk to the neighborhood, the construction area will be secured from unauthorized entry.
- 6. Work will be performed using appropriate engineering controls and signage to prevent exposure from the work. Refer to the technical specification section for requirements.
- 7. All openings to building interior shall be securely sealed with a single layer of six (6)-mil polyethylene sheeting. Refer to the technical specification section for requirements.
- 8. Ground protection and isolation barriers shall remain in place throughout remediation work to collect debris resulting from the remediation. All debris generated during operations including but not limited to visible caulk/glazing compound, dust and debris shall be HEPA vacuumed continuously throughout the

- work shift and at the end of the work shift to avoid accumulation. Any tears or rips that occur in polyethylene barriers shall be repaired or removed and replaced with new protections.
- 9. All equipment utilized to perform cutting, or demolition of adjacent materials shall be equipped with appropriate dust collection systems. All visible dust shall be removed using HEPA vacuums and wet cleaning methods with solvent or other acceptable products.
- 10. All surfaces adjacent to materials removed shall be properly decontaminated upon completing the removal of PCB Bulk Product Waste and PCB Remediation Waste.
- 11. Appropriate PCB waste containers shall be placed adjacent to abatement zones. Containers shall be lined, covered and secured. The PCB waste containers shall be properly marked as described in 40 CFR 761.45.

#### 3.2 Removal Procedures

The following removal procedures shall be utilized to conduct PCB Bulk Product Waste and PCB Remediation Waste removal.

Sequence of removal shall follow the following general requirements:

- 1. Source and substrate materials scheduled for removal as Mixed Regulated Asbestos PCB Bulk Product Waste will be remediated and packaged and labeled for transport;
- 2. Source and substrate materials scheduled for removal as PCB Remediation Waste will be remediated and packaged and labeled for transport;
- 3. Soil scheduled for removal as PCB Remediation Waste will be remediated to a depth of four (4) inches and packaged and labeled for transport;
- 4. Once materials have been removed and surfaces cleaned, an Eagle representative shall be notified to visually inspect and to verify the completeness and effectiveness of removal and cleaning; and,
- 5. Upon successful completion of the visual inspection, sampling in accordance with the requirements of 40 CFR Subpart O will be conducted to verify completion of the soil/gravel remediation.

#### 3.2.1 PCB Bulk Product Waste

PCB Bulk Product Waste and Mixed Regulated Asbestos-PCB Bulk Product Waste shall be handled and removed from specified locations for proper disposal. Materials shall be removed carefully in a manner that does not breakdown the materials into fine dust or powder.

Tools to be utilized shall include hand tools such as sharp point scrapers to remove materials from adjacent substrates. Any mechanical removal equipment shall be appropriately fitted with dust collection systems. Any dry or brittle caulking materials shall be removed with additional engineering controls such as use of a HEPA vacuum to remove accumulated dust or debris during removal.

Once removed, materials shall be placed in lined containers or into appropriate temporary containers such as six (6)-mil polyethylene disposal bags for controlled transport to PCB waste

containers at the end of each work shift. PCB Bulk Product Waste shall be stored for disposal in accordance with 40 CFR Part 761.65. All waste containers shall be appropriately labeled and stored in accordance with 40 CFR Part 761.40 and 761.45.

#### 3.2.2 PCB Remediation Waste Materials

PCB Remediation Waste less than fifty (50) ppm PCB shall be removed and immediately containerized in six (6)-mil polyethylene disposal bags or a lined container for disposal.

The packaged waste shall not be emptied into other containers to avoid dispersal of dust or fugitive emissions. No dry sweeping, dusting or blowing shall be allowed. The use of minimal quantities of water spray to moisten the generated dust prior to collection shall be utilized. Under no circumstances shall the PCB Remediation Waste or Mixed Regulated Asbestos – PCB Remediation Waste show evidence of free liquid water or pooling within the waste stream.

Any liquid used to wet the dust and debris to control fugitive emissions shall be collected and disposed of as PCB Liquid Waste in accordance with 40 CFR Part 761.61 (a)(5)(iv). All rags and other cleaning materials used to clean shall also be properly disposed of as PCB Remediation Waste.

All PCB Remediation Waste shall be stored for disposal in accordance with 40 CFR Part 761.65. All waste containers shall be appropriately labeled in accordance with 40 CFR Part 761.40 and 761.45.

#### 3.3 Post-Remediation Verification Plan

Upon completion of work, a thorough visual inspection of all remediated surfaces for visible evidence of dust and debris shall be performed. Surfaces shall also be inspected for visible PCB source materials that may not have been removed.

Visual inspection shall ensure that no visible dust or debris is present on adjacent surfaces where sources and substrates were removed. In addition to the remediated surfaces, the surfaces of protective coverings and isolation barriers shall be inspected to ensure they are cleaned of dust and debris.

Since scheduled window systems and all source and substrate materials that contain PCB in excess of one (1) ppm will be removed in their entirety; the visual inspection shall provide verification that remediation work has been completed in accordance with this SIP.

Upon successful completion of the visual inspection, sampling in accordance with the requirements of 40 CFR Subpart O will be conducted in Areas 2, 4, 5, 6, and 7 to verify completion of the soil remediation. Sampling of the soil in accordance with 40 CFR Subpart N will be conducted in Areas 1 and 3 to verify that the soil is not contaminated.

Upon successful completion of cleaning and the visual inspection, wipe sampling of steel lintels and I-beams will be conducted in accordance with the requirements of 40 CFR Subpart P.

#### 4.0 Schedule and Plan Certification

It is the intent of the Owner (Town of Berlin) to begin the removal of PCB Bulk Product Waste and PCB Remediation Waste Materials in accordance with this plan.

It is anticipated that the work shall be performed as expeditiously as possible to meet the construction schedule. Upon completing the PCB Remediation and verification inspection confirming that the Project Objectives have been met, the demolition work shall commence.

The Owner hereby certifies that all the sampling plans, sample collection procedures, sample preparation procedures, extraction procedures and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site, are on file at the Town and available for EPA inspection.

Denise McMay	5-9-12
Owner's Representative Denise McNair Town Manager	Date
Eagle Environmental, Inc. Representative Ashis Roychowdhury Exécutive Vice President	<b>5</b> -7-2012 Date
Remediation Contractor Representative	Date

The work of this plan was prepared to support applications under the Code of Federal regulations. Title 40 Section 761.79 (h) and 40 CFR 761.61 (a) for EPA approval of decontamination and sampling approaches for specified porous and nonporous materials impacted by specified non-liquid PCB-containing caulking and glazing compounds associated with former Kensington Furniture Company Warehouse building located at 903 Farmington Avenue in Berlin, Connecticut. Decontamination procedures and post abatement acceptance criteria will be based on post abatement visual inspections.

# DIAGRAM 1-1 SITE LOCATION MAP (SP-1)



SITE PLAN

NOT TO SCALE

DRAWN BY: BLS

REVIEWED BY: AR





531 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 860-589-8257

SHEET NO.

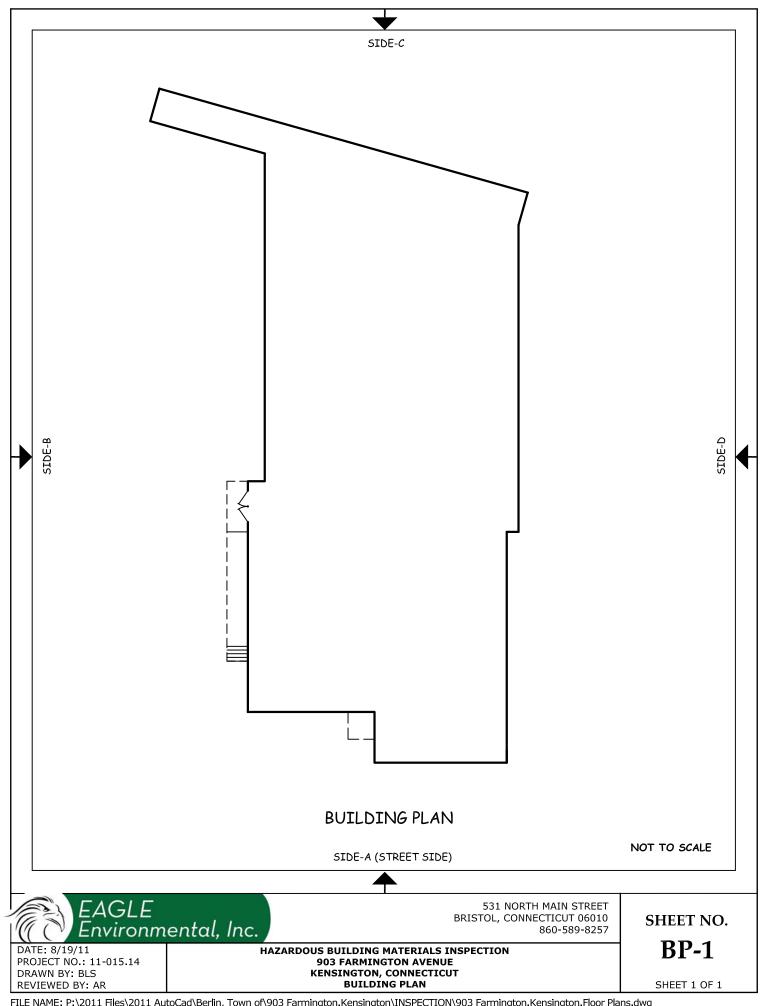
**SP-1** 

SHEET 1 OF 1

HAZARDOUS BUILDING MATERIALS INSPECTION
903 FARMINGTON AVENUE
BERLIN, CONNECTICUT
SITE PLAN

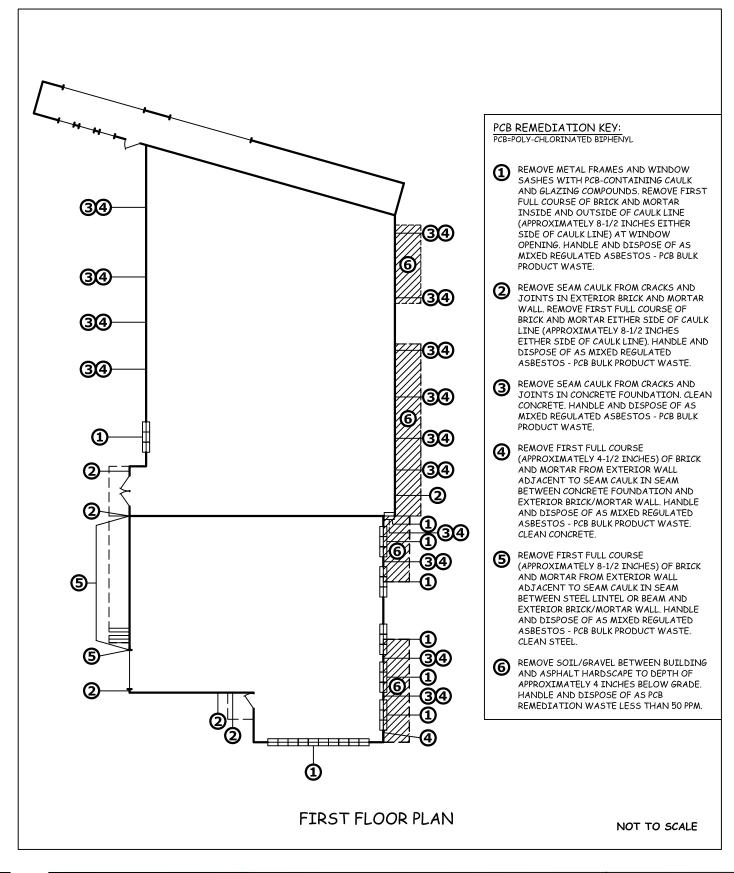
DIAGRAM 1-2

BUILDING PLAN (BP-1)



#### DIAGRAM 1-2

PCB REMEDIATION PLAN (PCB 1.1)





PROJECT NO.: 11-015.14A

DRAWN BY: BLS

REVIEWED BY: AR,JT

531 NORTH MAIN STREET BRISTOL, CONNECTICUT 06010 860-589-8257

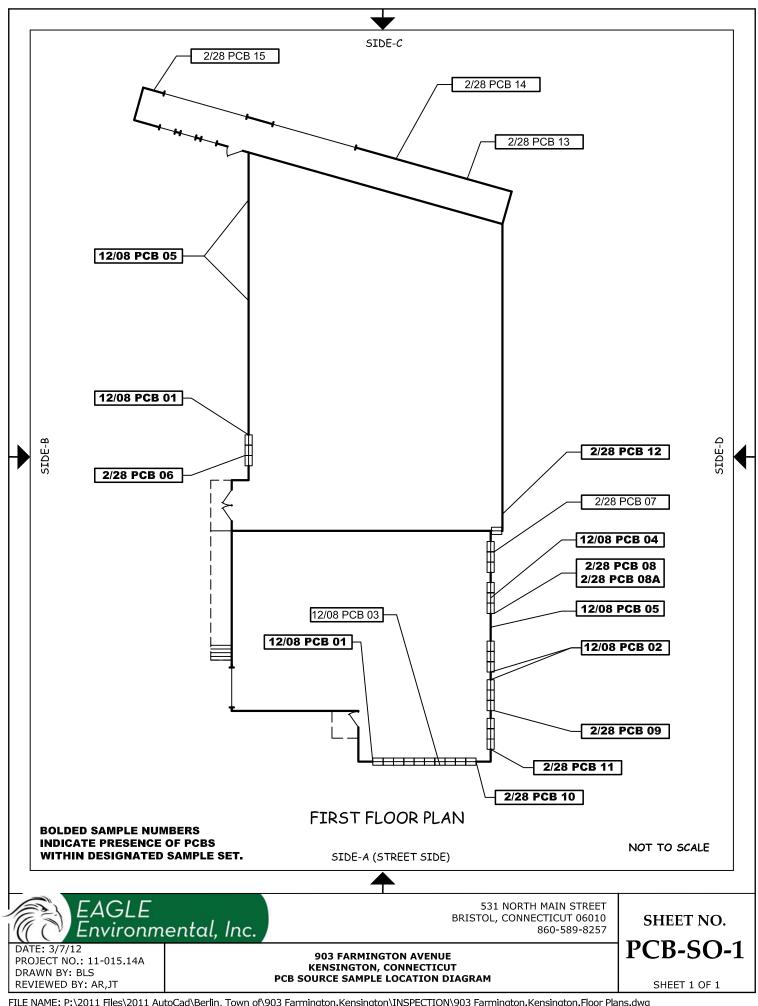
SHEET NO.

**PCB-1.1** 

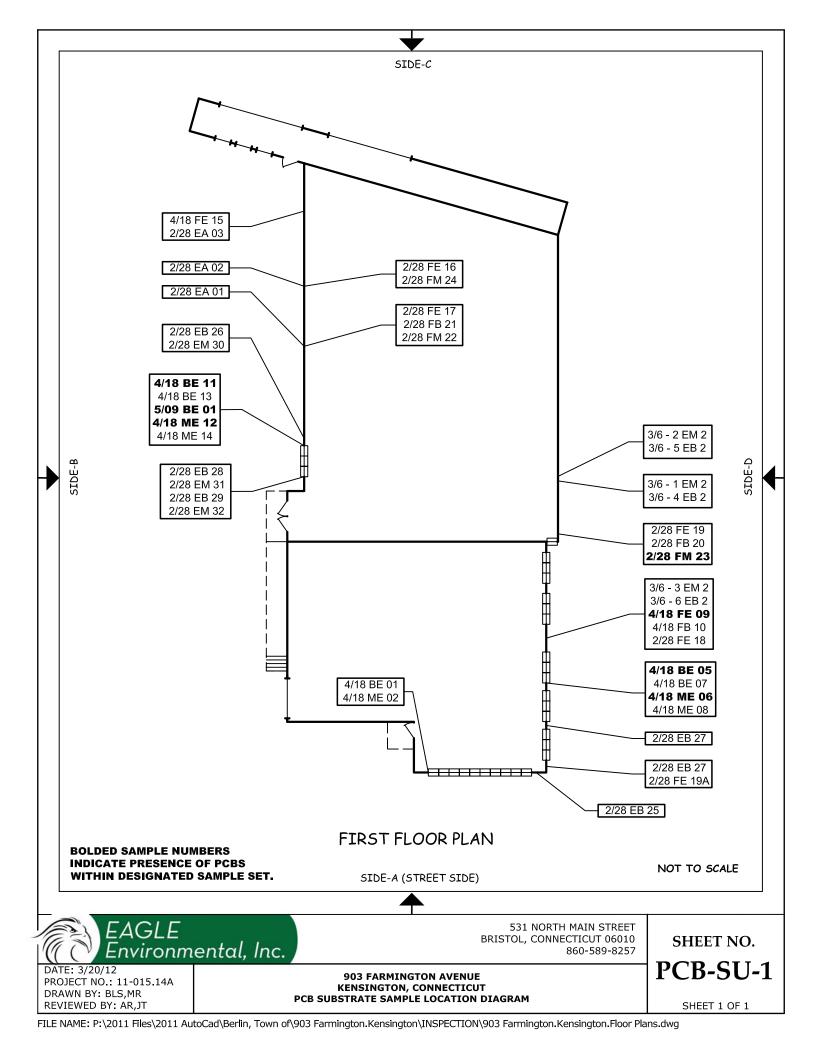
SHEET 1 OF 1

PCB REMEDIATION PLAN 903 FARMINGTON AVENUE KENSINGTON, CONNECTICUT

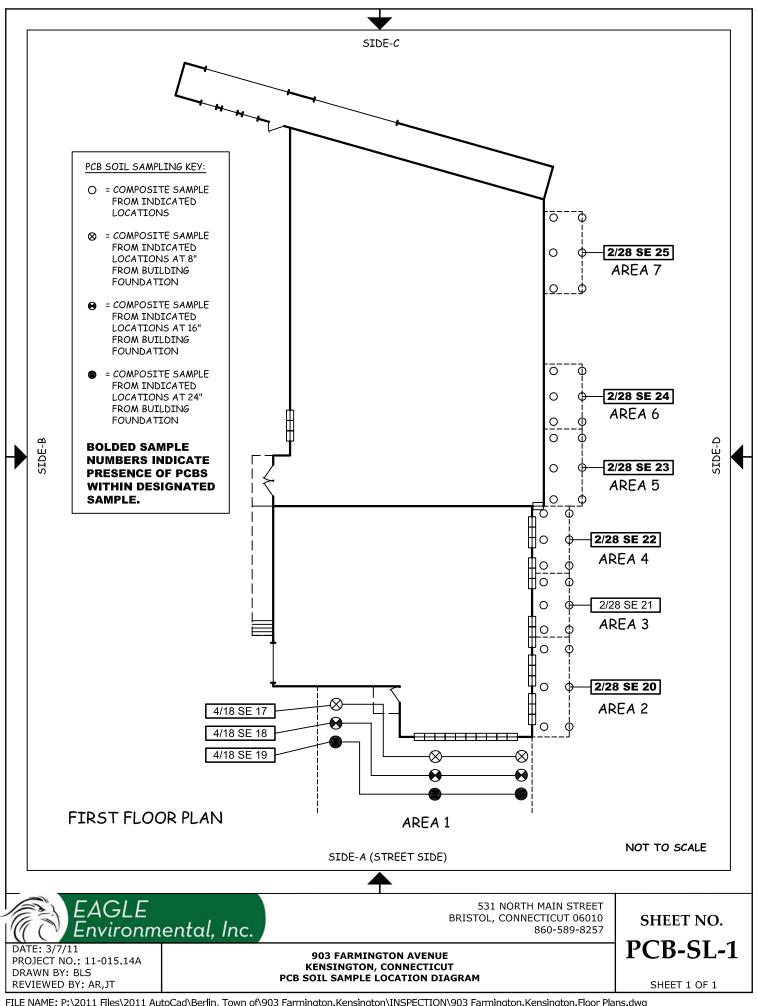
SAMPLE LOCATION DIAGRAM – SOURCE MATERIALS (PCB-SO-1)



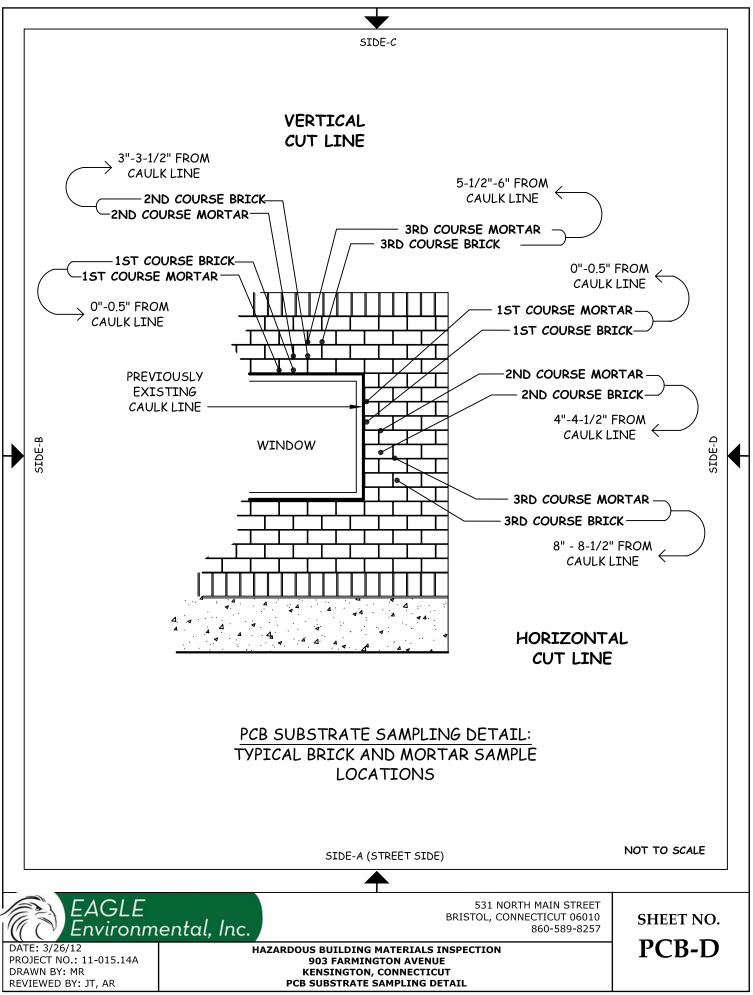
SAMPLE LOCATION DIAGRAM – EXTERIOR ADJACENT POROUS SUBSTRATES (PCB-SU-1)



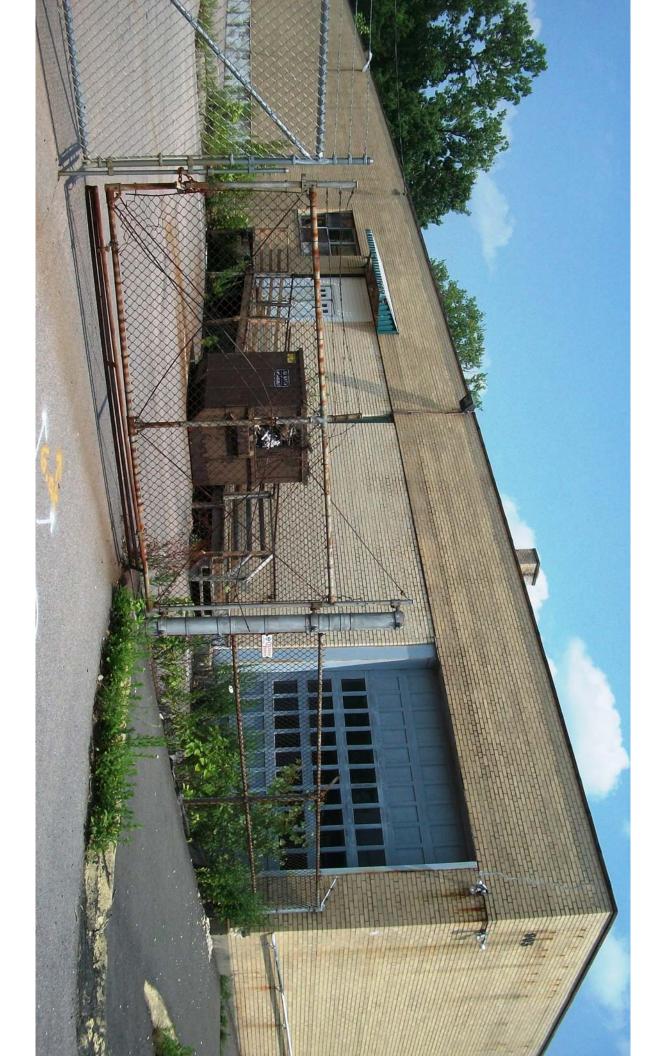
SAMPLE LOCATION DIAGRAM – EXTERIOR SOIL (PCB-SL-1)

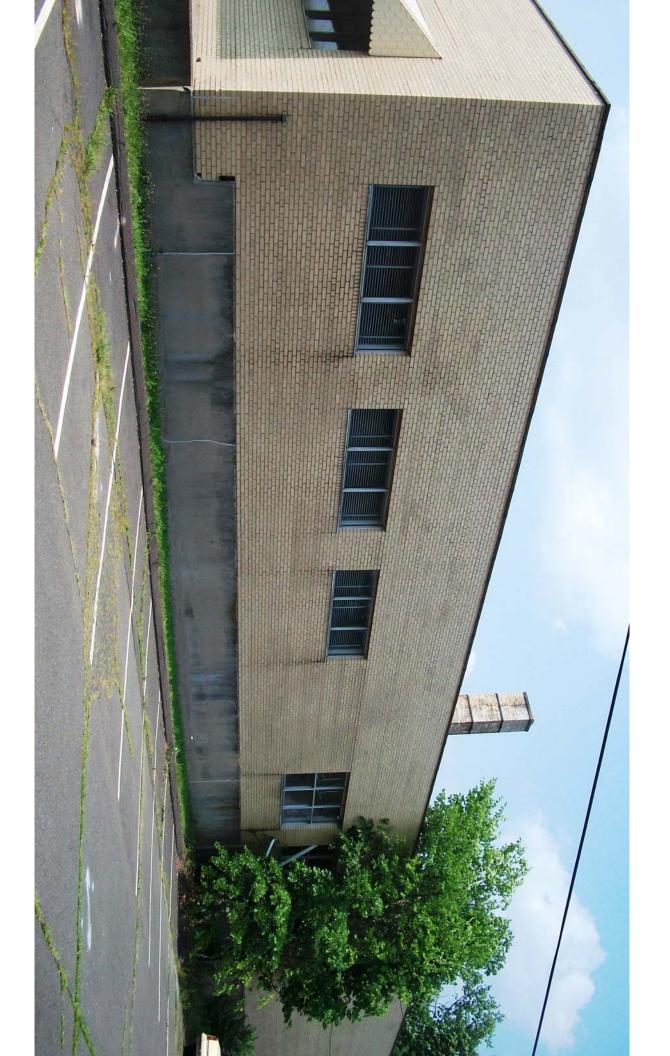


PCB SUBSTRATE SAMPLING DETAIL (PCB-D)



# DIAGRAM 2-4 PHOTOGRAPHS OF CAULK/SUBSTRATE JOINTS







#### APPENDIX A

TABLE 2.1.1: SAMPLING OF SOURCE MATERIALS - RESULT SUMMARY, LABORATORY RESULTS AND CHAIN OF CUSTODY FORMS

# TABLE I PCB CONTAINING MATERIALS SOURCE SUMMARY TABLE 903 FARMINGTON AVENUE KENSINGTON, CONNECTICUT

				SOURCE SAMPLES	PLES				
SAMPLE		SOURCE	MATERIAL			RESULT (PPM)	<u> </u>		
DATE	SAWFLE#	LOCATION	TYPE	SAMPLE DESCRIPTION	D>/QN	ND/<1 >1 PPM.	>50 PPM	LOCATIONS. FOUND	ESTIMATED OUANTITY
12-8-2010	PCB 1	Façade A/B			TAT E/F	4.8	And Burgaries and		
	PCB 2	Façade D					10.000		
	PCB 8		4	Grey window frame on the			22,000		
2-28-2012	PCB 8A	Façade D	4	Olcy willow liains caulk			21,000	All exterior window frames	139 LF
	PCB 9						22,000		
	PCB 10	Façade A					52.000		
12-8-2010	PCB 3	Façade A			2				
	PCB 4	Façade D	ţ	Grev window Plazing		7.7			
7 20 2012	PCB 6	Facade B	2	pulloumos		1.7		All exterior window sashes	329 LF
7107-07-7	PCB 7	Facade D			3				
12-8-2010	PCB 5	Facade B			26:				
	200	i ayaar					32,000	Cracks and seams on exterior	
	PCB 11	Façade B	ပ	Grey foundation and seam caulk			6,200	walls and foundation, I-beams	130 LF
רוטר פר ר	PCB 12	Façade D				5.4		and lintels	
7107-07-7	PCB 13				QN				
	PCB 14	Façade C	Q	Black foundation seam caulk	QN			Foundation to wall seam at	V/N
	PCB 15				Ę			Façade C	<b>U</b> /k1
	<b>N</b> .	KEY				ANALVE	ANALYTICAL METHOD		
ND = NON DET	ND = NON DETECTED (<1 PPM)			SW 846-8082/3540 C		And the second section was produced to the second s	elaka Tagunat ng dinama		
			* Bolded	Bolded sample numbers indicates presence of PCB in excess of 1 PPM	nce of PC	3 in excess (	f 1 PPM		



Tuesday, December 14, 2010

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

**TOWN OF BERLIN -903 FARMINGTON AVE** 

Sample ID#s: AZ85773 - AZ85777

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

**NELAC - #NY11301** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



**Analysis Report** 

December 14, 2010

FOR: Attn: Mr. Ashis Roychowdhury

Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

SOLID

\_ID Collected by:

<u>Date</u> <u>Time</u> 12/08/10 0:00

Location Code:

**EAGLEENV** 

LDF

12/09/10 14:45

Rush Request:

RUSH##

Received by: Analyzed by:

see "By" below

P.O.#:

Matrix:

10-247.11

**Laboratory Data** 

**Custody Information** 

SDG ID: GAZ85773 Phoenix ID: AZ85773

Project ID:

**TOWN OF BERLIN -903 FARMINGTON AVE** 

Client ID:

#1

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	12/09/10			E160.3
Caulk Extraction for PCB	Completed			12/09/10		BB/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	830	ug/Kg	12/14/10		MH	3540C/8082
PCB-1221	ND	830	ug/Kg	12/14/10		МН	3540C/8082
PCB-1232	ND	830	ug/Kg	12/14/10		MH	3540C/8082
PCB-1242	ND	830	ug/Kg	12/14/10		MH	3540C/8082
PCB-1248	*	830	ug/Kg	12/14/10		MH	3540C/8082
PCB-1254	ND	830	ug/Kg	12/14/10		MH	3540C/8082
PCB-1260	ND	830	ug/Kg	12/14/10		MH	3540C/8082
PCB-1262	ND	830	ug/Kg	12/14/10		MH	3540C/8082
PCB-1268	ND	830	ug/Kg	12/14/10		MH	3540C/8082
Total PCBs	4800	830	ug/Kg	12/14/10		MH	3540C/8082
QA/QC Surrogates							
% DCBP	98		%	12/14/10		MH	3540C/8082
% TCMX	106		%	12/14/10		МН	3540C/8082

Project ID: TOWN OF BERLIN -903 FARMINGTON AVE

Phoenix I.D.: AZ85773 Client ID: #1

Parameter Result RL Units Date Time Ву Reference

#### Comments:

if there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

<sup>\*</sup> For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by using the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

14:45

# **Analysis Report**

December 14, 2010

FOR:

Attn: Mr. Ashis Roychowdhury

Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

_					
Samp	ما	Into	rm	ation	ı
COLLED	16	иич	4 1 1 1	CHUI	ı

Matrix:

SOLID

**EAGLEENV** 

**Rush Request:** P.O.#:

**Location Code:** 

RUSH## 10-247.11 **Custody Information** 

Collected by: Received by:

Analyzed by:

LDF

see "By" below

**Laboratory Data** 

SDG ID: GAZ85773

Phoenix ID: AZ85774

Date

12/08/10

12/09/10

Project ID:

TOWN OF BERLIN -903 FARMINGTON AVE

Client ID:

#2

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	12/09/10			E160.3
Caulk Extraction for PCB	Completed			12/10/10		BB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	3300000	ug/Kg	12/14/10		MH	3540C/8082
PCB-1221	ND	3300000	ug/Kg	12/14/10		MH	3540C/8082
PCB-1232	ND	3300000	ug/Kg	12/14/10		MH	3540C/8082
PCB-1242	ND	3300000	ug/Kg	12/14/10		MH	3540C/8082
PCB-1248	ND	3300000	ug/Kg	12/14/10		MH	3540C/8082
PCB-1254	10000000	3300000	ug/Kg	12/14/10		MH	3540C/8082
PCB-1260	ND	3300000	ug/Kg	12/14/10		мн	3540C/8082
PCB-1262	ND	3300000	ug/Kg	12/14/10		мн	3540C/8082
PCB-1268	ND	3300000	ug/Kg	12/14/10		МН	3540C/8082
QA/QC Surrogates							
% DCBP	Diluted Out		%	12/14/10		MH	3540C/8082
% TCMX	Diluted Out		%	12/14/10		MH	3540C/8082

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

December 15, 2010

#### **QA/QC Data**

SDG I.D.: GAZ85773

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 167264, QC Sample No	: AZ86226 (AZ85774)						
Polychlorinated Biphenyls	. ,						
PCB-1016	ND	100	87	13.9	*		NC
PCB-1221	ND		0,	10.0			NC
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	77	77	0.0	*	*	NC
PCB-1262	ND						NO
PCB-1268	ND						
% DCBP (Surrogate Rec)	77	82	75	8.9	NR	NR	NC
% TCMX (Surrogate Rec)	58	78	72	8.0	NR	NR	NC
Comment:				_	* *	•	

<sup>\*</sup> The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

service@phoenixlabs.com	Towns of Barling - 903 FARMING AN ANGELLIO	Phone ib   1500   1	Contraction of the second of t			and the state of t
c. C. Emaili	PROPERTY OF THE PROPERTY OF TH	Client Sample Information Identification	Date (2/68	obewalls Sample Date Time Matrix Sampled Sampled	8 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	



Tuesday, March 06, 2012

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

903 FARMINGTON AVE., BERLIN

Sample ID#s: BB48313 - BB48323

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A.B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102



# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

**SOLID** 

Time

**Location Code:** 

Matrix:

**EAGLEENV** 

Collected by:

**Custody Information** 

02/28/12 02/29/12

Date

0:00 13:49

11-015.14A

Received by:

LB

Phoenix ID: BB48315

**Rush Request:** P.O.#:

72 Hour

Analyzed by:

see "By" below

**Laboratory Data** 

SDG ID: GBB48313

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

PCB-8

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	02/29/12			E160.3
Caulk Extraction for PCB	Completed			02/29/12		BB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	4100000	ug/Kg	03/04/12		МН	3540C/8082
PCB-1221	ND	4100000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1232	ND	4100000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	4100000	ug/Kg	03/04/12		МН	3540C/8082
PCB-1248	ND	4100000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1254	•	4100000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	•	4100000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1262	ND	4100000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1268	ND	4100000	ug/Kg	03/04/12		MH	3540C/8082
Total PCBs	22000000	4100000	ug/Kg	03/04/12		MH	3540C/8082
QA/QC Surrogates							
% DCBP	Diluted Out		%	03/04/12		MH	30 - 150 %
% TCMX	Diluted Out		%	03/04/12		МН	30 - 150 %

Project ID: 903 FARMINGTON AVE., BERLIN

Client ID: PCB-8

Phoenix I.D.: BB48315

Parameter Result RL Units Date Time By Reference

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



**Time** 

0:00

13:49

# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix:

**SOLID** 

**EAGLEENV** 

**Location Code:** Rush Request:

72 Hour

11-015.14A

**Custody Information** 

Collected by:

Received by:

**Laboratory Data** 

Analyzed by:

LB

see "By" below

SDG ID: GBB48313

**Date** 

02/28/12

02/29/12

Phoenix ID: BB48316

Project ID:

P.O.#:

903 FARMINGTON AVE., BERLIN

Client ID:

PCB-8A

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	02/29/12			E160.3
Caulk Extraction for PCB	Completed			02/29/12		BB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	8100000	ug/Kg	03/04/12		мн	3540C/8082
PCB-1221	ND	<b>8100000</b>	ug/Kg	03/04/12		MH	3540C/8082
PCB-1232	ND	8100000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	8100000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	8100000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1254	•	8100000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	*	8100000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1262	ND	8100000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1268	ND	8100000	ug/Kg	03/04/12		мн	3540C/8082
Total PCBs	21000000	8100000	ug/Kg	03/04/12		мн	3540C/8082
QA/QC Surrogates			,				
% DCBP	Diluted Out		%	03/04/12		МН	30 - 150 %
% TCMX	Diluted Out		%	03/04/12		MH	30 - 150 %

Project ID: 903 FARMINGTON AVE., BERLIN

Client ID: PCB-8A

Phoenix I.D.: BB48316

Parameter Result RL Units Date Time By Reference

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



<u>Time</u>

0:00

13:49

# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

**SOLID** 

**Location Code: EAGLEENV** 

Rush Request:

Matrix:

P.O.#:

72 Hour

11-015.14A

**Custody Information** 

**Laboratory Data** 

Collected by: Received by:

Analyzed by:

LB

see "By" below

SDG ID: GBB48313 Phoenix ID: BB48317

**Date** 

02/28/12

02/29/12

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

PCB-9

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	02/29/12			E160.3
Caulk Extraction for PCB	Completed			02/29/12		BB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	7900000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1221	ND	7900000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1232	ND	7900000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	7900000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	7900000	ug/Kg	03/04/12		мн	3540C/8082
PCB-1254	•	7900000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	*	7900000	ug/Kg	03/04/12		мн	3540C/8082
PCB-1262	ND	7900000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1268	ND	7900000	ug/Kg	03/04/12		МН	3540C/8082
Total PCBs	22000000	7900000	ug/Kg	03/04/12		MH	3540C/8082
QA/QC Surrogates						٠	
% DCBP	Diluted Out		%	03/04/12		MH	30 - 150 %
% TCMX	Diluted Out		%	03/04/12		MH	30 - 150 %

Project ID: 903 FARMINGTON AVE., BERLIN

Client ID: PCB-9

Phoenix I.D.: BB48317

Parameter Result RL Units Date Time By Reference

#### **Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

13:49

# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix: **SOLID** 

**Location Code: EAGLEENV** 

**Rush Request:** 

72 Hour

11-015.14A

**Custody Information** 

Collected by:

Received by: LB

Analyzed by:

see "By" below

**Laboratory Data** 

SDG ID: GBB48313

Phoenix ID: BB48318

Date

02/28/12

02/29/12

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

P.O.#:

**PCB-10 WINDOW CAULK** 

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	02/29/12			E160.3
Caulk Extraction for PCB	Completed			02/29/12		BB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	8000000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1221	ND	8000000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1232	ND	8000000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	8000000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	8000000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1254	•	8000000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	*	8000000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1262	ND	8000000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1268	ND	8000000	ug/Kg	03/04/12		MH	3540C/8082
Total PCBs	52000000	8000000	ug/Kg	03/04/12		МН	3540C/8082
QA/QC Surrogates							
% DCBP	Diluted Out		%	03/04/12		МН	30 - 150 %
% TCMX	Diluted Out		%	03/04/12		MH	30 - 150 %

Project ID: 903 FARMINGTON AVE., BERLIN

Client ID: PCB-10 WINDOW CAULK

Phoenix I.D.: BB48318

Parameter Result RL Units Date Time By Reference

#### **Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.



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# **QA/QC** Report

March 06, 2012

#### QA/QC Data

SDG I.D.: GBB48313

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 195216, QC Sa BB48320, BB48321, BB4832	omple No: BB48197 (BB48313 2, BB48323)	, BB48314, BB4	8315, E	3B48316	5, BB48	317, BE	348318	, BB48319	Э,
Polychlorinated Bipher	yls - Solid								
PCB-1016	ND	109	96	12.7	104	96	8.0	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	91	83	9.2	•	*	NC	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	83	76	8.8	94	90	4.3	30 - 150	30
% TCMX (Surrogate Rec)	92	85	75	12.5	86	78	9.8	30 - 150	30
Comment:				•					
* The batch MS and MSD recover	ries could not be calculated due to	the presence of PC	CB in the	unspike	d sample	e. LCS/L	.CSD re	coveries we	ere

\* The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis Shiller, Laboratory Director

Bate Delivery: 16 Englemond ich Project P.O: 11-015: 14A Bay I Thouse I have the following the second to the second ō Data Package Data Format Pg ☐ GIS/Key EQuIS Excel 7100 EQUIS Other MA MCP Certification Phone #: Fax #: ☐ GW-2 ☐ GW-3 ☐ GW-1 Š. 363 Farmyter Aug, Bealin, CT GW Protection SW Pratection GA Mobility ☐ GB Mobility CT RCP Cert 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726 RI Orect Exposure (Residential) CHAIN OF CUSTODY RECORD 138.CV The state of the s 8 Report to: Invoice to: Project: Analysis Request  $\underline{\nu}$ Turnaround: 1 Day\* 2/29 Sampled J J Date: 2-18-12 き Time Z K 4 文文 がな \$ \$ Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water 77 Date Sampled 7-25-17 2.28.12 ハーンだった 2-22-12 2-26-12 7-78-17 1-56-1 7.18.17 06610 Client Sample - Information - Identification Sample Matrix よっていこう アート Environmental Laboratories, Inc. Min Comments, Special Requirements or Regulations: epted by Lucialized Com //2" ( E. ipaconston 30.2.) 100x (451 moles) - 1 14.70 Customer Sample PC A - 8 A PCB-8 PCB-13 Pc B-10 PCB-7 PC13-11 (S) DC12-12 PCB-6 7 PHOENIX USE ONLY SAMPLE # Customer; Refinguished by: 18688 18688 Address; 48315 48318 48318 48313 1831 Sampler's Signalure 48319

\* SURCHARGE APPLIES

☐ Tier II Checklist ☐ Full Data Package\* ☐ Phoenix Std Report

MWRA **eSMART** 

State where samples were collected;

\* SURCHARGE APPLIES

2 Days\*

XX 3 Days\*

Standard
Other

S-2

Residential DEC

O I/C DEC

\* SURCHARGE APPLIES Phoenix Sld Report Full Data Package\* Pg 2012 Tier II Checklist
 Tier II Checklist
 ■ 14.1 Things of the second Data Package Data Format GIS/Key Equis Other 750 Exce 11-015. MA MCP Certification Project P.O: ☐ MWRA eSMART Phone #: Fax #: ☐ GW-2 Data Delivery: GW-3 S-2 ζ'n Email: State where samples were collected: Residential DEC GW Protection SW Protection GA Mobility CT RCP Cert GB Mobility ☐ I/C DEC Other 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726 A. RI Direct Exposure (Residential) CHAIN OF CUSTODY RECORD Goz Promise for Other ر کا ا ا 1 Day\*
2 Days\*
X 3 Days\*
Slandard
Other
surcharge Applies Time: Involce to: Report to: Analysis Request Project: 2/24/12 Turnaround; Date: Į. Ž Sampled 50 Z/Z/ Time Dale: 2-18-17 Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water 7.78.17 1-28-12 7-36-17 Date Sampled 0=Other 06010 Client Sample - Information - Identification W=Wipe Sample Matrix FASINGS Environmental Laboratories, Inc. JA CIT Comments, Special Requirements or Regulations; ccepted by: 1 61-ck forch tim S=Soil/Solid Customer Sampte Identification Sein Car 1/2 DCB-14 PC18-15 DCB-13 Rishi SE=Sediment SL=Sludge PHOENIX USE ONLY -18223 Customer: Address: 4832 SAMPLE # Sampler's Signature



Tuesday, December 14, 2010

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID: TOWN OF BERLIN -903 FARMINGTON AVE

Sample ID#s: AZ85773 - AZ85777

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102



# **Analysis Report**

December 14, 2010

FOR:

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc.

531 North Main Street Bristol, CT 06010

Sample Information

**Custody Information** 

Date

Time

Matrix:

SOLID

Collected by:

12/08/10

0:00

**Location Code:** 

**EAGLEENV** 

Received by:

LDF

12/09/10

14:45

Rush Request:

RUSH##

Analyzed by:

see "By" below

SDG ID: GAZ85773

P.O.#:

10-247.11

**Laboratory Data** 

Phoenix ID: AZ85775

Project ID:

**TOWN OF BERLIN -903 FARMINGTON AVE** 

Client ID:

#3

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	12/09/10			E160.3
Caulk Extraction for PCB	Completed			12/09/10		BB/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	830	ug/Kg	12/13/10		MH	3540C/8082
PCB-1221	ND	830	ug/Kg	12/13/10		MH	3540C/8082
PCB-1232	ND	830	ug/Kg	12/13/10		MH	3540C/8082
PCB-1242	ND	830	ug/Kg	12/13/10		MH	3540C/8082
PCB-1248	ND	830	ug/Kg	12/13/10		MH	3540C/8082
PCB-1254	ND	830	ug/Kg	12/13/10		MH	3540C/8082
PCB-1260	ND	830	ug/Kg	12/13/10		MH	3540C/8082
PCB-1262	ND	830	ug/Kg	12/13/10		MH	3540C/8082
PCB-1268	ND	830	ug/Kg	12/13/10		мн	3540C/8082
QA/QC Surrogates							
% DCBP	112		%	12/13/10		МН	3540C/8082
% TCMX	96		%	12/13/10		МН	3540C/8082

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

December 14, 2010

FOR:

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street

Bristol, CT 06010

Sample Information

Matrix:

SOLID

**EAGLEENV** 

RUSH## 10-247.11

Rush Request:

**Location Code:** 

P.O.#:

**Custody Information** 

Collected by:

Received by: Analyzed by:

LDF

see "By" below

12/08/10

**Date** 

<u>Time</u> 0:00

12/09/10 14:45

**Laboratory Data** 

SDG ID: GAZ85773 Phoenix ID: AZ85776

Project ID:

**TOWN OF BERLIN -903 FARMINGTON AVE** 

Client ID:

#4

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	12/09/10			E160.3
Caulk Extraction for PCB	Completed			12/09/10		BB/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	830	ug/Kg	12/14/10		мн	3540C/8082
PCB-1221	ND	830	ug/Kg	12/14/10		МН	3540C/8082
PCB-1232	ND	830	ug/Kg	12/14/10		МН	3540C/8082
PCB-1242	ND	830	ug/Kg	12/14/10		MH	3540C/8082
PCB-1248	•	830	ug/Kg	12/14/10		MH	3540C/8082
PCB-1254	ND	830	ug/Kg	12/14/10		МН	3540C/8082
PCB-1260	ND	830	ug/Kg	12/14/10		MH	3540C/8082
PCB-1262	ND	830	ug/Kg	12/14/10		MH	3540C/8082
PCB-1268	ND	830	ug/Kg	12/14/10		мн	3540C/8082
Total PCBs	2400	830	ug/Kg	12/14/10		мн	3540C/8082
OA/OC Surrogates							
% DCBP	98		%	12/14/10		MH	3540C/8082
% TCMX	95		%	12/14/10		МН	3540C/8082

Project ID: TOWN OF BERLIN -903 FARMINGTON AVE

Client ID: #4

Phoenix I.D.: AZ85776

Parameter Result RL Units Date Time By Reference

#### **Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

<sup>\*</sup> For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by using the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **QA/QC** Report

December 15, 2010

#### **QA/QC Data**

SDG I.D.: GAZ85773

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 167264, QC Sample I	No: AZ86226 (AZ85774)						
Polychlorinated Biphenyls	,						
PCB-1016	ND	100	87	13.9	*	•	NC
PCB-1221	ND		<b>.</b> ,	10.0			NC
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND ·	77	<b>7</b> 7	0.0	*	*	NC
PCB-1262	ND		- •				.40
PCB-1268	ND						
% DCBP (Surrogate Rec)	77	82	75	8.9	NR	NR	NC
% TCMX (Surrogate Rec)	58	78	72	8.0	NR	NR	NC
Comment:					, •		,10

<sup>\*</sup> The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

<u>Data:Delivery:</u> ☐ Fax #: ☐ Email:	Øハ 作句をt P.O. <i>10- マイテ・パー</i> Phone #: <u>名位の一ちあ</u> 名-ラン5子 Fax #:	The second secon	100 100 100 100 100 100 100 100 100 100	8							MCP Cert.  SW-1  SW-2  GW-2  GSW-8  GSW-8  S-1	RA eSMART	
	Ashis Paychawothery	Man									Time: Turnaround: CT/RI  1.Day*  2.Days*  2.Days*  3.Days*  GW.Protect:  GB.Mobility  Standaro	Res. Val. Ind. Val. Res. Criteria Other	State where samples were collected:
mental Laboratories, Inc.  Emerical East from wanted Inc.	ication	Date 12/68	Samble: Date Time Matrix Sampled Sampled	Kcb # L Zadilla	5	2	KB45 Teckoration V V X			新子子の 100mm	Comments, Special Redultraments on Regulations	Dictection (Mr. H. Must be helded) I ppin If Redinked	



Tuesday, March 06, 2012

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

903 FARMINGTON AVE., BERLIN

Sample ID#s: BB48313 - BB48323

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

SOLID

**Location Code: EAGLEENV** 

**Rush Request:** 

72 Hour

11-015.14A

**Custody Information** 

Collected by:

Received by:

LB

02/28/12

Date

0:00

Time

02/29/12 13:49

Analyzed by:

see "By" below

**Laboratory Data** 

SDG ID: GBB48313

Phoenix ID: BB48313

Project ID:

Matrix:

P.O.#:

903 FARMINGTON AVE., BERLIN

Client ID:

PCB-6

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Caulk Extraction for PCB	100 Completed	1	%	02/29/12 02/29/12		BB/D	E160.3 SW3540C
PCB (Soxhlet)							
PCB-1016	ND	820	ug/Kg	03/04/12		мн	3540C/8082
PCB-1221	ND	820	ug/Kg	03/04/12		MH	3540C/8082
PCB-1232	ND	820	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	820	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	820	ug/Kg	03/04/12		MH	3540C/8082
PCB-1254	1100	820	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	ND	820	ug/Kg	03/04/12		МН	3540C/8082
PCB-1262	ND	820	ug/Kg	03/04/12		MH	3540C/8082
PCB-1268	ND	820	ug/Kg	03/04/12		MH	3540C/8082
QA/QC Surrogates			,				
% DCBP	101		%	03/04/12		МН	30 - 150 %
% TCMX	98		%	03/04/12		MH	30 - 150 %

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

SOLID

**EAGLEENV** 

**Location Code:** Rush Request:

72 Hour

11-015.14A

**Custody Information** 

**Laboratory Data** 

Collected by:

Received by:

LB

Date 02/28/12 Time 0:00

02/29/12

13:49

Analyzed by:

see "By" below

SDG ID: GBB48313

Phoenix ID: BB48314

Project ID:

P.O.#:

903 FARMINGTON AVE., BERLIN

Client ID:

**PCB-7 WINDOW GLAZE** 

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	02/29/12			E160.3
Caulk Extraction for PCB	Completed			02/29/12		BB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	770	ug/Kg	03/04/12		МН	3540C/8082
PCB-1221	ND	770	ug/Kg	03/04/12		МН	3540C/8082
PCB-1232	ND	770	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	770	ug/Kg	03/04/12		МН	3540C/8082
PCB-1248	ND	770	ug/Kg	03/04/12		MH	3540C/8082
PCB-1254	920	770	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	ND	770	ug/Kg	03/04/12		мн	3540C/8082
PCB-1262	ND	770	ug/Kg	03/04/12		МН	3540C/8082
PCB-1268	ND	770	ug/Kg	03/04/12		мн	3540C/8082
QA/QC Surrogates							
% DCBP	96		%	03/04/12		MH	30 - 150 %
% TCMX	95		%	03/04/12		МН	30 - 150 %

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis/Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

March 06, 2012

#### **QA/QC** Data

SDG I.D.: GBB48313

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 195216, QC Sa	ample No: BB48197 (BB483	13, BB48314, BB4	8315, E	B48316	s, BB48	317, BE	348318,	BB48319	),
BB48320, BB48321, BB4832	•								
Polychlorinated Bipher	<u>ıyıs - 50110</u>								
PCB-1016	ND	109	96	12.7	104	96	8.0	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	91	83	9.2	*	*	NC	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	83	76	8.8	94	90	4.3	30 - 150	30
% TCMX (Surrogate Rec)	92	85	75	12.5	86	78	9.8	30 - 150	30
Comment:				•					
* The batch MS and MSD recove within QA/QC limits.	ries could not be calculated due	to the presence of PC	CB in the	unspike	d sampl	e. LCS/L	.CSD red	coveries we	ere

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis Shiller, Laboratory Director

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CHAIN OF CUSTODY RECORD

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587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726

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ortes, Inc.	<u> </u>	

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			MA	MCP Certification	GW-1	GW-2	? } ] [	; ].[	S-2	S-3	MWRA 6SMART	Other	cted: CT
			CT	<u>Ш</u>		SW Protection	GA Mobility	GB Mobility	Residential DEC	□ I/C DEC	Other		State where samples were collected:
			R	Direct Exposure	SCC CM								
1	<b>b</b> -		Date: Time:	2/29/12 110	04017 3	ļ		Turnaround:		∠ Days"	X 3 Days*	Standard	U Other SURCHARGE APPLIES
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\* SURCHARGE APPLIES Phoenix Std Report Full Data Package\* ☐ Tier I! Checklist 145 Data Package ؠ Data Format GIS/Key EQUIS Other 350 PDF Project P.O: 11 - 015 Original State of the State of the Original Ę. MA MCP Certification MWRA eSMART 1 Phone #: Fax #: ☐ GW-1 ☐ GW-3 Other ☐ GW-2 Data Delivery: S-1 S-2 Email: Fax #: State where samples were collected: Beeling City Residential DEC GW Protection SW Protection GA Mobility GB Mobility CT RCP Cert ☐ I/C DEC Other T. D. 587 East Middle Tumpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726 RI Direct Exposure CHAIN OF CUSTODY RECORD (Residential) GUZ Paramente Other 13.49 Bew 101 \* SURCHARGE APPLIES Time: Invoice to: Report to: 1 Day\*
2 Days\*
3 Days\*
Standard
Other Project: Analysis Request などでは石 12-129/12 Furnaround: Date: Sampled J. 50 Z Y Date: 7-18-17 Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water

DW=Drinking Water GW=Ground Water SW=Surface Water O=Other Date Sampled 2.28.11 2-28-12 7-38-12 01090 Cjent Sample - Information - Identification Sample Matrix , ENVISORMENT Environmental Laboratories, Inc. A Sin Comments, Special Requirements or Regulations: Accepted by: furd. Lin Customer Sample Sein Che 1/2 Identification Wind W PC13-15 DC B-14 DCB-13 Bristel 6 KCK PHOENIX USE ONLY SAMPLE # なののな Relinguished by S.A.D.D Customer: かのみか Address: Sampler's Signature



Tuesday, December 14, 2010

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID: TOWN OF BERLIN -903 FARMINGTON AVE

Sample ID#s: AZ85773 - AZ85777

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

**NELAC - #NY11301** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

December 14, 2010

FOR:

Attn: Mr. Ashis Roychowdhury

Eagle Environmental Inc.

531 North Main Street Bristol, CT 06010

Sample Information

SOLID

<u>Time</u>

Matrix:

**EAGLEENV** 

Collected by:

**Custody Information** 

0:00

Location Code:

EAGLEEN

Received by:

LDF

12/08/10 12/09/10

Date

14:45

Rush Request:

RUSH##

Analyzed by:

see "By" below

SDG ID: GAZ85773

P.O.#:

10-247.11

**Laboratory Data** 

Phoenix ID: AZ85777

Project ID:

TOWN OF BERLIN -903 FARMINGTON AVE

Client ID:

#5

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	12/09/10			E160.3
Caulk Extraction for PCB	Completed			12/09/10		BB/K	SW3540C
PCB (Soxhlet)						•	
PCB-1016	ND	8300000	ug/Kg	12/13/10		MH	3540C/8082
PCB-1221	ND	8300000	ug/Kg	12/13/10		МН	3540C/8082
PCB-1232	ND	8300000	ug/Kg	12/13/10		MH	3540C/8082
PCB-1242	ND	8300000	ug/Kg	12/13/10		MH	3540C/8082
PCB-1248	ND	8300000	ug/Kg	12/13/10		MH	3540C/8082
PCB-1254	32000000	8300000	ug/Kg	12/13/10		MH	3540C/8082
PCB-1260	ND	8300000	ug/Kg	12/13/10		мн	3540C/8082
PCB-1262	ND	8300000	ug/Kg	12/13/10		MH	3540C/8082
PCB-1268	ND	8300000	ug/Kg	12/13/10		MH	3540C/8082
QA/QC Surrogates							
% DCBP	Diluted Out		%	12/13/10		MH	3540C/8082
% TCMX	Diluted Out		%	12/13/10		MH	3540C/8082

#### **Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director

December 15, 2010



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

December 15, 2010

### QA/QC Data

SDG I.D.: GAZ85773

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 167264, QC Sample	No: AZ86226 (AZ85774)	-					
Polychlorinated Biphenyls							
PCB-1016	ND	100	87	13.9	*	*	NC
PCB-1221	ND						
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	77	77	0.0	*	*	NC
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	77	82	75	8.9	NR	NR	NC
% TCMX (Surrogate Rec)	58	78	72	8.0	NR	NR	NC
Comment:							

<sup>\*</sup> The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

December 15, 2010

Email: services	Report to Ashis Rechause of FARMINGS Not And FARMINGS NOT THE MINESTER OF THE	Date 12/68 Request:	Samplei Date Time 600    Samplei Date   Time	State:where samples were collected: Compared to the collected: C
Imental Laboratories, In		Signature Signature  Matrix Code:  DW=drinking.water  SESSIIISSIId O=other  SL=slidge	ample solve	Omminents, Special Réquirements or Regulations:



Tuesday, March 06, 2012

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID: 903 FARMINGTON AVE., BERLIN

Sample ID#s: BB48313 - BB48323

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

**SOLID** 

**EAGLEENV Location Code:** 

**Rush Request:** 

72 Hour

P.O.#:

Matrix:

11-015.14A

**Custody Information** 

Collected by:

Received by:

LB

Analyzed by: see "By" below

Date Time 02/28/12

02/29/12

0:00

13:49

SDG ID: GBB48313 **Laboratory Data** Phoenix ID: BB48319

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

PCB-11

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Caulk Extraction for PCB	100 Completed	1	%	02/29/12 02/29/12		BB/D	E160.3 SW3540C
PCB (Soxhlet)							
PCB-1016	ND	830000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1221	ND	830000	ug/Kg	03/04/12		MН	3540C/8082
PCB-1232	ND	830000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	830000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	830000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1254	•	830000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	•	830000	ug/Kg	03/04/12		МН	3540C/8082
PCB-1262	ND	830000	ug/Kg	03/04/12		MH	3540C/8082
PCB-1268	ND	830000	ug/Kg	03/04/12		MH	3540C/8082
Total PCBs	6200000	830000	ug/Kg	03/04/12		МН	3540C/8082
QA/QC Surrogates							
% DCBP	Diluted Out		%	03/04/12		мн	30 - 150 %
% TCMX	Diluted Out		%	03/04/12		MH	30 - 150 %

Project ID: 903 FARMINGTON AVE., BERLIN

Client ID: PCB-11

Phoenix I.D.: BB48319

Units

RL

### Comments:

**Parameter** 

\* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Result

Phyllis Shiller, Laboratory Director

Date

Time

By

Reference





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix:

SOLID

**Location Code: EAGLEENV** 

**Rush Request:** 

72 Hour

11-015.14A

**Custody Information** 

Collected by:

Received by:

Analyzed by:

**Laboratory Data** 

LB

see "By" below

SDG ID: GBB48313

Phoenix ID: BB48320

Date

02/28/12

02/29/12

Time

0:00

13:49

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

P.O.#:

**PCB-12 FOUNDATION SEAM** 

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	02/29/12			E160.3
Caulk Extraction for PCB	Completed			02/29/12		BB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	770	ug/Kg	03/04/12		МН	3540C/8082
PCB-1221	ND	770	ug/Kg	03/04/12		MH	3540C/8082
PCB-1232	ND	770	ug/Kg	03/04/12		МН	3540C/8082
PCB-1242	ND	770	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	770	ug/Kg	03/04/12	•	мн	3540C/8082
PCB-1254	5400	770	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	ND	770	ug/Kg	03/04/12		мн	3540C/8082
PCB-1262	ND	770	ug/Kg	03/04/12		MH	3540C/8082
PCB-1268	ND	770	ug/Kg	03/04/12		мн	3540C/8082
QA/QC Surrogates							
% DCBP	98		%	03/04/12		MH	30 - 150 %
% TCMX	97		%	03/04/12		МН	30 - 150 %

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102



**Time** 

0:00

13:49

## **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

**SOLID** 

**Location Code: EAGLEENV** 

**Rush Request:** 

72 Hour

P.O.#:

Matrix:

11-015.14A

**Custody Information** 

**Laboratory Data** 

Collected by:

Analyzed by:

Received by:

LB

see "By" below

SDG ID: GBB48313

Phoenix ID: BB48321

Date 02/28/12

02/29/12

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

**PCB-13** 

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	02/29/12		DD (D	E160.3
Caulk Extraction for PCB	Completed			02/29/12		BB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	830	ug/Kg	03/04/12		MH	3540C/8082
PCB-1221	ND	830	ug/Kg	03/04/12		МН	3540C/8082
PCB-1232	ND	830	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	830	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	830	ug/Kg	03/04/12		МН	3540C/8082
PCB-1254	ND	830	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	ND	830	ug/Kg	03/04/12		MH	3540C/8082
PCB-1262	ND	830	ug/Kg	03/04/12		MH	3540C/8082
PCB-1268	ND	830	ug/Kg	03/04/12		MH	3540C/8082
QA/QC Surrogates							
% DCBP	70		%	03/04/12		MH	30 - 150 %
% TCMX	65		%	03/04/12		МН	30 - 150 %

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

13:49

## **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

**SOLID** 

**EAGLEENV** 

**Location Code:** Rush Request:

72 Hour

**Custody Information** 

Collected by:

Received by:

Analyzed by:

LB

see "By" below

SDG ID: GBB48313

Date

02/28/12

02/29/12

P.O.#:

11-015.14A

**Laboratory Data** 

Phoenix ID: BB48322

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

PCB-14

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	02/29/12			E160.3
Caulk Extraction for PCB	Completed			02/29/12		BB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	800	ug/Kg	03/04/12		мн	3540C/8082
PCB-1221	ND	800	ug/Kg	03/04/12		МН	3540C/8082
PCB-1232	ND	800	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	800	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	800	ug/Kg	03/04/12		МН	3540C/8082
PCB-1254	ND	800	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	ND	800	ug/Kg	03/04/12		мн	3540C/8082
PCB-1262	ND	800	ug/Kg	03/04/12		МН	3540C/8082
PCB-1268	ND	800	ug/Kg	03/04/12		МН	3540C/8082
QA/QC Surrogates							
% DCBP	71		%	03/04/12		MH	30 - 150 %
% TCMX	68		%	03/04/12		мн	30 - 150 %

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

13:49

## **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

**SOLID** 

**EAGLEENV** 

Location Code: Rush Request:

72 Hour

11-015.14A

**Custody Information** 

Collected by:

Received by:

Analyzed by:

LB

see "By" below

**Laboratory Data** 

SDG ID: GBB48313

Phoenix ID: BB48323

Date

02/28/12

02/29/12

Project ID:

P.O.#:

903 FARMINGTON AVE., BERLIN

Client ID:

PCB-15 BLACK FOUNDATION SEAM CAULK

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	02/29/12			E160.3
Caulk Extraction for PCB	Completed			02/29/12		BB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	810	ug/Kg	03/04/12		мн	3540C/8082
PCB-1221	ND ND	810	ug/Kg	03/04/12		MH	3540C/8082
PCB-1232	ND	810	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	810	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	810	ug/Kg	03/04/12		MH	3540C/8082
PCB-1254	ND	810	ug/Kg	03/04/12		МН	3540C/8082
PCB-1260	ND	810	ug/Kg	03/04/12		MH	3540C/8082
PCB-1262	ND	810	ug/Kg	03/04/12		МĤ	3540C/8082
PCB-1268	ND	810	ug/Kg	03/04/12		MH	3540C/8082
QA/QC Surrogates							
% DCBP	70		%	03/04/12		MH	30 - 150 %
% TCMX	65		%	03/04/12		МН	30 - 150 %

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## QA/QC Report

March 06, 2012

### QA/QC Data

SDG I.D.: GBB48313

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits	
QA/QC Batch 195216, QC Sa		348313, BB48314, BB4	8315, B	B48316	, BB48	317, BE	348318,	BB48319	),	
BB48320, BB48321, BB4832										
Polychlorinated Bipher	<u>nyls - Solid</u>									
PCB-1016	ND	109	96	12.7	104	96	8.0	40 - 140	30	
PCB-1221	ND							40 - 140	30	
PCB-1232	ND							40 - 140	30	
PCB-1242	ND							40 - 140	30	
PCB-1248	ND							40 - 140	30	
PCB-1254	ND							40 - 140	30	
PCB-1260	ND	91	83	9.2	*		NC	40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	90	83	76	8.8	94	90	4.3	30 - 150	30	
% TCMX (Surrogate Rec)	92	85	75	12.5	86	78	9.8	30 - 150	30	
Comment:										
* The hatch MS and MSD recove	aries could not be calculated	d due to the process of D	CD in the			- 100/	000			

<sup>\*</sup> The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

		ರ	CHAIN OF CUSTODY RECORD	And the state of t	V Temp (	7 Pg 1 of 2
		587 East f Emal	587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Emall: info@phoenixlabs.com Fax (860) 645-0823		Data Delivery: +e.r.;    @	terrill@ ergloword
mental Labo	Inc.		9	645-8726	Email:	
Address: 53/ N. Mills.	15. S.F. 06010		' '	963 Farmyles Aux, Bulla,	C7 Project P.O: 11	11-015-144
	)		Invoice to:		Fax #:	
Sampler's Client Sample - Information - Identification Signature	- Identification Date: 2-7	2-18-12	Analysis Kry Kendest Kry			4400/203
Matrix Code:  DW=Drinking Water GW=Ground Water SW=Surface Water WW=Wasie Water SE=Sediment SL=Sludge S=Soil/Soild W=Wipe 0=Other	irface Water WW=Waste v W=Wipe O=Other	Water	(60)		OKI SON TORREGUEST	1 10 16 TO
PHOENIX USE ONLY SAMPLE # Identification	Sample Date Metrix Sampled	Time			1000 162 80 160 162 862 802 162 162 162 162 162 162 162 162 162 16	Huggi to St. Logic Conf.
3	2・25・12	₹ ₹		\$	0 0 0 0	(4)
48.514 PCB-7	N 2 2 2 2 2	きま	>			
Ť			•			
0	2-52-1	Z ZZ	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
9	S 1.23-12	₹ ₹	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
0317	21.81.2	大文	>			
48018 PCB-10	N. 82-2 S	本た				
(1812) ( in midring com 1/2)	1					
	7.18.7	AM	>			
(10/2 00) (C. igension yours)						
	1-28:17	ググ	<b>&gt;</b>			
Accepted by:			Date: Time:	RI	MA	Data Earmet
John James			1/2/	Direct Exposure (Residential)		Excel
		- (1)	20-1-1-1-2-2-	ws □	<u> </u>	GIS/Key
omments, Special Requirements or Regulations.				☐ Olher ☐ GA Mobility		Eouls
		F-1_	Turnaround:	GB Mobility	<u> </u>	Uata Package
			2 Days*	Residential DEC	EC S-2	☐ Tier II Checklist
			Standard	Other	☐ MWRA eSMART	Phoenix Std Report
			Other surcharge Applies	State where samples were collected:	ellected:	

CHAIN OF CUSTODY RECORD   Continue   Conti	NI N	MA MAA MCP Certification GW-1 GW-2 GW-3 S-1 S-2 S-2 S-3 MWRA eSMART
S87 East Middle Tumpike, P.O. Email: info@phoenixlabs. Client Services Client Services (Client Services Project: Request Time Malysis Request Sampled		RI     CI     CI     CI   CI   CI   CI
	CHAIN OF CUS  Entition into mental Laboratories, Inc.  Customer:  Customer:  Customer:  Customer:  Standard Carlos  Customer:  Customer:  Standard Carlos  Customer:  Customer:  Standard Carlos  Customer:  Custome	(1/2-11) 10 (1/2-

### APPENDIX B

TABLE 2.1.2: CORE SAMPLING OF EXTERIOR SUBSTRATES FOR WINDOWS (BRICKS/MORTAR/CONCRETE) - RESULT SUMMARY, LABORATORY RESULTS AND CHAIN OF CUSTODY

TABLE II
PCB CONTAINING MATERIALS
SUBSTRATE SUMMARY TABLE
903 FARMINGTON AVENUE
KENSINGTON, CONNECTICUT

NEW TRACESTORIAL COMPANIES OF SECULO SECULO	And the collection of the Annual State of the Collection of the Co	Classic 102 modern and the control of the plant property with		KENSINGTON, CONNECTICUT	UT				
SAMPLE	SAMPLE#	SUBSTRATE	SAMPLE	SAMPLEDESCRIPTION		RESULT	RESULTS IN PPM		ESTIMATED
DALE		LOCATION	TYPE		COURSE 1	COURSE 2	COURSE 3	COURSE 4	QUANTITY
4-18-11	4/18 BE-01	Façade A			QN				
	4/18 BE-05	Facade D			47				
4-18-11	4/18 BE-07	r ayanc D		1	QN				
-	4/18 BE-11			1	160				
	4/18 BE-13	Façade B				QN			
5-09-11	5/9 BE-01		٧	Brick adjacent to window frame caulk		19			139 L.F
	4-28-EB-25	Façade A				QN.			}
	4-28-EB-26	Façade B					QN		
2-28-12	4-28-EB-27	Façade D				QN			
	4-28-EB-28	Facade B					QN		
	4-28-EB-29						ES.		
	4/18-ME-02	Façade A			QN				
	4/18-ME-06	Facade D			5.8				
4-18-11	4/18-ME-08	C oppån .	A	Mortar adjacent to window frame caulk		QN.			
	4/18-ME-12	Facade B			320				
	4/18-ME-14	a oppån i				980.			139 LF
	4-28-EM-30						<u>Q</u>		
4-28-12	4-28-EM-31	Façade B	Ą	Mortar adjacent to window frame caulk			QN		
	4-28-EM-32						QN		
4-18-11	4/18 FE-09	Façade D			69				
	4/18 FE-15				QN				
	2-28-FE-16	Façade B			ND				
	2-28-FE-17		ပ	Concrete adjacent to toundation and seam	ND				109 LF
2-28-12	2-28-FE-18			Cauin		S			
	2-28-FE-19	Façade D				QN.			
	2-28-FE-19A					QN			
	KEY	A			ANALYTK	ANALINATIOALIMETRIOD			
ND = NON DETECTED	TECTED			SW_846-8082 / 3540C		To the state of th			
1st Course = 0	1st Course = 0"- 0.5" Inches from Source	rom Source							
2nd Course =	2nd Course = 4" - 4.5" from Source	ource							
			*Bold	*Bolded sample numbers indicates presence of PCB in excess of 1 PPM	CB in excess o	f 1 PPM			

TABLE II
PCB CONTAINING MATERIALS
SUBSTRATE SUMMARY TABLE
903 FARMINGTON AVENUE
KENSINGTON, CONNECTICUT

				MALICALION CONTROLLICOI	10				
SAMPLE	SAMPLE#	SUBSTRATE	SAMPLE	SAMPLE DESCRIPTION		RESULTS IN PPM	SIN PPM		ESTIMATED
DAIE		LOCATION	TYPE		COURSE 1	COURSE 2	COURSE 3	COURSE 4	OUANTITY
4-18-11	4/18 FB-10	Escade D				CN			
2-28-12	2-28-FB-20	I açancı				2			
	2-28-FB-21	Façade B	(	Brick adjacent to foundation and seam		Œ			
	3-6-4-EB2		ر	caulk		Q.			113 LF
3-6-2012	3-6-5-EB2	Façade D				N N			
	3-6-6-EB2					Q.			
	2-28-FM-22	Façade B			QN.				
2-28-12	2-28-FM-23	Engado D		J	25				
	2-28-FM-24	raçane D		Mortar adjacent to foundation and seam	CZ				•
	3-6-1-EM2					4			113 LF
3-6-2012	262 EM42	Façade D	Ç			ND			-
7107-0-0	3-0-2-EIVIZ		ر			ND			
	3-6-3-EM2	Façade B				ND			
	2-28-EA-1				69.				
2-28-12	2-28-EA-2	Façade B		Asphait adjacent to foundation and seam	Ę				V/N
	2-28-EA-3			Caulk	CZ				<u> </u>
icie	KEY	$oldsymbol{X}$			ANALYTIC	ANAUNTIGALIMENHOD			
ND = NON DETECTED	TECTED			SW 846-8082 / 3540C					
1st Course $= 0$	1st Course = 0"- 0.5" Inches from Source	rom Source							
2nd Course = 4	2nd Course = 4" - 4.5" from Source	ource							
			*Bolde	*Bolded sample numbers indicates presence of PCB in excess of 1 PPM	CB in excess of	1 PPM			



Friday, April 22, 2011

Attn: Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

**TOWN OF BERLIN-KENSINGTON** 

Sample ID#s: BA21498 - BA21505

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## **Analysis Report**

April 22, 2011

FOR:

Attn: Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix:

SOLID

**EAGLEENV** 

Location Code: Rush Request:

RUSH##

11-015.14

**Custody Information** 

Collected by:

Received by: LB

Analyzed by:

see "By" below

04/18/11 04/19/11

Date

0:00 7:35

**Time** 

**Laboratory Data** 

SDG ID: GBA21498

Phoenix ID: BA21498

Project ID:

P.O.#:

TOWN OF BERLIN-KENSINGTON

Client ID:

BE-01 FAC, A CAULK LINE BRICK

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/19/11			E160.3
Caulk Extraction for PCB	Completed			04/19/11		BQ/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	970	ug/Kg	04/20/11		мн	3540C/8082
PCB-1221	ND	970	ug/Kg	04/20/11		мн	3540C/8082
PCB-1232	ND	970	ug/Kg	04/20/11		МН	3540C/8082
PCB-1242	ND	970	ug/Kg	04/20/11		MH	3540C/8082
PCB-1248	ND	970	ug/Kg	04/20/11		MH	3540C/8082
PCB-1254	ND	970	ug/Kg	04/20/11		MH	3540C/8082
PCB-1260	ND	970	ug/Kg	04/20/11		MH	3540C/8082
PCB-1262	ND	970	ug/Kg	04/20/11		MH	3540C/8082
PCB-1268	ND	970	ug/Kg	04/20/11		MH	3540C/8082
QA/QC Surrogates							
% DCBP	92		%	04/20/11		MH	3540C/8082
% TCMX	61		%	04/20/11		MH	3540C/8082

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

April 25, 2011



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## **Analysis Report**

April 22, 2011

FOR:

Attn: Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

**Location Code:** 

**Rush Request:** 

SOLID

**EAGLEENV** 

RUSH##

11-015.14

**Custody Information** 

**Laboratory Data** 

Collected by:

Received by:

Analyzed by:

LB

see "By" below

04/19/11

Date

04/18/11

7:35

Time

0:00

SDG ID: GBA21498 Phoenix ID: BA21500

Project ID:

P.O.#:

TOWN OF BERLIN-KENSINGTON

Client ID:

BE-05 FAC. D CAULK LINE BRICK

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/19/11			E160.3
Caulk Extraction for PCB	Completed			04/19/11		BQ/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	14000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1221	ND	14000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1232	ND	14000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1242	ND	14000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1248	ND	14000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1254	*	14000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1260	•	14000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1262	ND	14000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1268	ND	14000	ug/Kg	04/22/11		MH	3540C/8082
Total PCBs	47000	14000	ug/Kg	04/22/11		МН	3540C/8082
QA/QC Surrogates							
% DCBP	117		%	04/22/11		мн	3540C/8082
% TCMX	83		%	04/22/11		мн	3540C/8082

Project ID: TOWN OF BERLIN-KENSINGTON Client ID: BE-05 FAC. D CAULK LINE BRICK

Phoenix I.D.: BA21500

Parameter Result RL Units Date Time By Reference

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

April 25, 2011

Ver 1

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **QA/QC** Report

April 25, 2011

## QA/QC Data

SDG I.D.: GBA21498

Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
No: BA21251 (BA21498,	BA21499, BA2	21500, BA2	1501, BA2	1502, BA21	503, BA2150	4,
ND	97	103	6.0	•	*	NC
ND						
ND						
ND		,				
ND ·						
ND						
ND	108	99	8.7	*	*	NC
ND						
ND						
84	89	92	3.3	NR	NR	NC
78	66	71	7.3	NR	NR	NC
	No: BA21251 (BA21498,  ND	Blank %  No: BA21251 (BA21498, BA21499, BA2  ND 97  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	Blank     %       No: BA21251 (BA21498, BA21499, BA21500, BA2       ND     97       ND     ND       84     89     92	Blank         %         %         RPD           No: BA21251 (BA21498, BA21499, BA21500, BA21501, BA2           ND         97         103         6.0           ND         ND         ND         ND           ND         ND         ND         ND           ND         ND         108         99         8.7           ND         ND         ND         ND         ND           ND         ND         84         89         92         3.3	Blank % % RPD Rec %  No: BA21251 (BA21498, BA21499, BA21500, BA21501, BA21502, BA21  ND 97 103 6.0 *  ND N	Blank % % RPD Rec % Rec %  No: BA21251 (BA21498, BA21499, BA21500, BA21501, BA21502, BA21503, BA21500)  ND 97 103 6.0 * *  ND N

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

were within QA/QC limits.

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis Shiller, Laboratory Director

April 25, 2011

Temp Pg ; of /  Data Delivery:  □ Fax#.  □ Email:  ct P.O:	\$ 627, 1403,	100 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000 	MCP Cert.  GW-1  GW-2  GW-3  S-1  S-2  S-3  MWRA eSMART  Other  N J Reduced Deliv.  N J Hazsite EDD  Other  Other  Other  Other
DY RECORD 70, Manchester, CT 06040 Fax (860) 645-0823 0) 645-8726 そのまではいかか の 645-872 たながらになった。 の 645-8726 そのまではいかい の だいがいがいかい の だいがいがいかい の だいがいがいかい の だいがいがいがい を だいがいがいがい の だいがいがい を だいがいがい を だいがいがい	\$ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Turnaround: CT/RI  1 Day*
CHAIN OF CUSTON  S87 East Middle Tumpike, P.O. Box 3  Email: service@phoenixlabs.com  And The Control Client Services (86  Client Services (86  Project: Intel Lord Control Co	1/8/1/3 1/8/1/	Sample Date Time Matrix Sampled Sampled X	X X X X X	Recepted by Date: Time:  Regulations:  De law ar Less - Hear < 1 Ppm  8.9% Re
Environmental Laboratories, I	Sample Information - Identification Signature  Signature  Matrix Code:  DW=drinking water  WW=wastewater S=soil/soild 0=other		18 FE-06 TAC. D. CALLE LINE 18 FE-09 FAC. D. CALLE LINE 18 BE-11 FAC. S. CALLE LINE 19 NE-12 FAC. S. CALLE LINE 19 FE-15 FAC. S. CALLE LINE 19 FAC. S. CALLE LIN	Comments, Special Requirements or Regulations:  Repartives I'm! + De Cour



Thursday, April 28, 2011

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

**TOWN OF BERLIN -903 FARMINGTON AVE** 

Sample ID#s: BA23808 - BA23815

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

April 28, 2011

FOR:

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

**Custody Information** 

Date 04/18/11

Time

Matrix: Location Code: **SOLID EAGLEENV**  Collected by:

0:00

**Rush Request:** 

RUSH##

Received by:

**LDF** 

04/25/11 14:22

Analyzed by:

see "By" below

**SDG ID: GBA23808** 

P.O.#:

11-015.14

**Laboratory Data** 

Phoenix ID: BA23808

Project ID:

**TOWN OF BERLIN -903 FARMINGTON AVE** 

Client ID:

4/18 BE-07 1ST CUT LINE BRICK

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/26/11		JL	E160.3
Soil Extraction for PCB	Completed			04/25/11		•	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	800	ug/Kg	04/26/11		MH	3540C/8082
PCB-1221	ND	800	ug/Kg	04/26/11		MH	3540C/8082
PCB-1232	ND	800	ug/Kg	04/26/11		мн	3540C/8082
PCB-1242	ND	800	ug/Kg	04/26/11		MH	3540C/8082
PCB-1248	ND	800	ug/Kg	04/26/11		MH	3540C/8082
PCB-1254	ND	800	ug/Kg	04/26/11		мн	3540C/8082
PCB-1260	ND	800	ug/Kg	04/26/11		MH	3540C/8082
PCB-1262	ND	800	ug/Kg	04/26/11		MH	3540C/8082
PCB-1268	ND	800	ug/Kg	04/26/11		MH	3540C/8082
QA/QC Surrogates							
% DCBP	80		%	04/26/11		MH	3540C/8082
% TCMX	72		%	04/26/11		MH	3540C/8082

### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

April 29, 2011

Page 1 of 10

Ver 1



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **QA/QC Report**

April 29, 2011

## **QA/QC** Data

SDG I.D.: GBA23808

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 175475, QC Sample No: B BA23815)	A23813 (BA23808,	BA23809, BA2	3810, BA23	811, BA2	3812, BA23	813, BA2381	4,
Polychlorinated Biphenyls							
PCB-1016	ND	94	95	1.1	110	109	0.9
PCB-1221	ND						
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	98	101	3.0	114	113	0.9
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	85	84	92	9.1	89	84	5.8
% TCMX (Surrogate Rec)	91	83	84	1.2	83	81	2.4

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

April 29, 2011

Temp (g Pg / of /	Data Delivery:	Елай:	A/Peroject P.O: 1/-015,1/4 Phone #: 840-589-8257	Fax #:	though Section 1	HOSE INCOST INCO	\$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100					~~-			MCP Cert.    Data Format   GW-1   GW-2   GW-2   GW-3   GW-3   GW-3   GW-3   GW-1   GW-3   GW-3   GW-1   GW-2   GW-3   GW-2   GW-3   GW-3   GW-2   GW-3   GW-3   GW-1   GW-1   GW-2   GW-3   GW-2   GW-3   GW-3   GW-3   GW-1   GW
CHAIN OF CUSTODY RECORD	587 East Middle Tumpike, P.O. Box 370, Manchester, CT 06040 Email: service@phoenixlabs.com Fax (860) 645-0823	Client Services (860) 645-8726	903 Farming fow,	Brawsele LEBLANC F			(30 s. 10 s.	100 C	文 (2) (3) (3) (4) (4) (5) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4				23815		Turnaround: CT/R! MA    1 Day*   RCP Cert.
CHAIN OF CI	587 East Middle Tumpike, P.O. Box 3 Email: service@phoenixlabs.com	Client Servic	Jan 1	Invoice to: By	// Analysis Request	The state of the s	Time Sampled	XXXX	+-	DKL X	X	Six.	XX		1/15/11 100 2 (1/25/11 100) 2 (1/25/11 10) 2 55 than < 17 pm
	Environmental Laboratories, Inc.	. 1	MATALO	UNIO (1911) C/1, 0(00/0	Client Sample - Information - Identification  7 ( %	WW=wastewater S=soil/solid O=other SL=sludge A=air	Customer Sample Sample Date Time Identification Matrix Sampled Sampled	- 13tax 11,20 Brick 5 4/18	HEN 5 4/18	91/h	11/18 Marton 5 4/18	101 101 / mallo < 4/2			ments or Regulations:
	Environmen		Customer: 53 H	47	Sampler's Signature	Matrix Code; DW=drinking water GW=groundwater	Phoenix Sample #	1 18-8607	418 13-10	1/18-18-13 18		4-18-5F-17	1		Relinquished by Comments, Special Require  Reportm



Friday, April 22, 2011

Attn: Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

TOWN OF BERLIN-KENSINGTON

Sample ID#s: BA21498 - BA21505

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

**NELAC - #NY11301** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

7:35

## **Analysis Report**

April 22, 2011

FOR:

Attn: Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

**SOLID** 

**EAGLEENV** 

**Location Code:** Rush Request:

RUSH##

P.O.#:

11-015.14

**Custody Information** 

**Laboratory Data** 

Collected by:

Received by:

Analyzed by:

LB

see "By" below

SDG ID: GBA21498

**Date** 

04/18/11

04/19/11

Phoenix ID: BA21503

Project ID:

TOWN OF BERLIN-KENSINGTON

Client ID:

**BE-11 FAC B CAULK LINE BRICK** 

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/19/11			E160.3
Caulk Extraction for PCB	Completed			04/19/11		BQ/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	48000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1221	ND	48000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1232	ND	48000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1242	ND	48000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1248	ND	48000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1254	*	48000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1260	• `	48000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1262	ND	48000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1268	ND	48000	ug/Kg	04/22/11		MH	3540C/8082
Total PCBs	160000	48000	ug/Kg	04/22/11		MH	3540C/8082
QA/QC Surrogates							
% DCBP	Diluted Out		%	04/22/11		MH	3540C/8082
% TCMX	Diluted Out		%	04/22/11		MH	3540C/8082

Project ID: TOWN OF BERLIN-KENSINGTON Client ID: BE-11 FAC B CAULK LINE BRICK

Phoenix I.D.: BA21503

Parameter Result RL Units Date Time By Reference

### **Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

April 25, 2011

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **QA/QC Report**

April 25, 2011

## QA/QC Data

SDG I.D.: GBA21498

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 174711, QC Sample BA21505) <b>Polychlorinated Biphenyls</b>	No: BA21251 (BA21498,	BA21499, BA2	21500, BA2	1501, BA2	1502, BA21	503, BA2150	)4,
PCB-1016	ND	97	103	6.0	*	*	NC
PCB-1221	ND						
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	108	99	8.7	*	*	NC
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	84	89	92	3.3	NR	NR	NC
% TCMX (Surrogate Rec)	78	66	71	7.3	NR	NR	NC
Comment:							
* The batch MS and MSD recoveries	could not be calculated due to	the presence of	PCB in the i	ınsniked sa	mole LCS/L	CSD recoverie	s

<sup>\*</sup> The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

**LCSD - Laboratory Control Sample Duplicate** 

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis Shiller, Laboratory Director

April 25, 2011

Temp Pg 1 of /  Data Delivery:    Fax #	11-015.14	LUGO OSTITION TO TO TO TO THE PROPERTY OF THE	Those of the second sec	- C		00	(g) (q)  (1) (q) (q)	0		Data Format  Excel PDF  GIS/Key  EQUIS Other		
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DY RECORD 70, Manchester, CT Fax (860) 645-05 0) 645-8726	4									Turnaround: CT/R 1 Day* 2 Days* 3 Days* Cstandard	re sam	
CHAIN OF CUSTOI 587 East Middle Tumpike, P.O. Box 3 Email: service@phoenixlabs.com Client Services (86	Project: Keport to: Invoice to:	Analysis // Request	1000	X	× ×	\( \) \( \) \( \) \( \) \( \)	۷ ٪	××		V-19-11 735 on	200 Per 1 Pe	
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Onmental Laboratories,	3105 man 51	Client Sample Information	WW=wastewater SL=sludge Customer Samp	FAC, A GAUILCLINE	THE COUNTY CINE	生位	FAC-B CAUTY LVNC	子をいるというにしている。そのではない。このではない。このではない。これは「こことは、こことは、こことは、こことは、こことに、こことに、こことに、こことに、			Reporting limit De low or (23)	
PHOE  Environmental	Customer: مراجعة Address:	Sampler's Signature	DW=drinking water GW=groundwater Phoenix	*	4/19, ME.02	4/18 MK-06	1 1	4/8 NE.12		No.	Capeta Raper	

ı



Thursday, April 28, 2011

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID: TOWN OF BERLIN -903 FARMINGTON AVE

Sample ID#s: BA23808 - BA23815

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



**Analysis Report** 

April 28, 2011

FOR:

Attn: Mr. Ashis Roychowdhury

Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

**SOLID** 

**Custody Information** 

**Laboratory Data** 

Date

Time

**Location Code:** 

Matrix:

**EAGLEENV** 

Collected by:

0:00

**Rush Request:** 

RUSH##

Received by:

LDF

04/18/11 04/25/11

14:22

11-015.14

Analyzed by:

see "By" below

SDG ID: GBA23808

Phoenix ID: BA23811

P.O.#:

TOWN OF BERLIN -903 FARMINGTON AVE

Project ID: Client ID:

4/18 BE-13 1ST CUT LINE BRICK

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/26/11		JL	E160.3
Soil Extraction for PCB	Completed			04/25/11		*	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	3300	ug/Kg	04/26/11		MH	3540C/8082
PCB-1221	ND	3300	ug/Kg	04/26/11		MH	3540C/8082
PCB-1232	ND	3300	ug/Kg	04/26/11		MH	3540C/8082
PCB-1242	ND	3300	ug/Kg	04/26/11		MH	3540C/8082
PCB-1248	ND	3300	ug/Kg	04/26/11		MH	3540C/8082
PCB-1254	ND	3300	ug/Kg	04/26/11		MH	3540C/8082
PCB-1260	ND	3300	ug/Kg	04/26/11		MH	3540C/8082
PCB-1262	ND	3300	ug/Kg	04/26/11		мн	3540C/8082
PCB-1268	ND	3300	ug/Kg	04/26/11		MH	3540C/8082
QA/QC Surrogates							
% DCBP	63*		%	04/26/11		MH	3540C/8082
% TCMX	38*		%	04/26/11		мн	3540C/8082

Project ID: TOWN OF BERLIN -903 FARMINGTON AVE

Client ID: 4/18 BE-13 1ST CUT LINE BRICK

Phoenix I.D.: BA23811

Parameter Result RL Units Date Time By Reference

### **Comments:**

\* The sample extracts were run undiluted causing the surrogates to be quantified above their calibration range.

Due to the very limited sample provided the requested reporting limit could not be achieved.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director

April 29, 2011



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

April 29, 2011

## QA/QC Data

SDG I.D.: GBA23808

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 175475, QC Sample N BA23815)	o: BA23813 (BA23808,	BA23809, BA2	3810, BA2	3811, BA2	3812, BA23	813, BA2381	4,
Polychlorinated Biphenyls							
PCB-1016	ND	94	95	1.1	110	109	0.9
PCB-1221	ND						
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	.98	101	3.0	114	113	0.9
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	85	84	92	9.1	89	84	5.8
% TCMX (Surrogate Rec)	91	83	84	1.2	83	81	2.4

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

April 29, 2011

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CORD	Manchester, CT 06040 Fax (860) 645-0823	903 Farming but	Roy chows the 1.2	EBLANC				જ	d) d	4	CO C	400	C6		E CT/RI		GE Res. Criteria
CHAIN OF CUSTODY RECORD	20, 20	Con the day of	1 3	Brewelly 1											Turnaround:	2 Days*	Other *SURCHARGE APPLIES
AIN OF CU	East Middle Tumpike, P.O. Box 3 Email: service@phoenixlabs.com	Project To.1.16	1 %		Analysis Request	1	200								Time:	ふこ	Less than < 19pm
S	587 East M Email: 8	Pro		Inv	/// Ana Req		Time Sampled		XX ZZ ZZ	DK X	7 7 2 2 6	XX	> Lnd		Date: ,	e 424	less-tha
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	FHOLINIX Environmental Laboratories, Inc.	Eggle Enlinemental	46 J.St.	T, 060	Client Sample - Information - Identification	water S=soil/solid O=other			15-ME-00 18-cut his Morth 5 15-10 Foundation-Brick juster	WB Brick			Soil 24" Composited			The state of the s	or Regulations:
	HOENX vironmental Laborator	Sale Fill	534 N. MARL	Bristal, C	Client Sample - Ir	er WW=wastewater r SL=sludge	Customer Sample Identification	17-15tathueBrick	5- FB-10 Foundation-Brick in	B 15 Cut live Brick	Bout the Marker	50%	7,1201305		Relinquished by:		Comments, Special Requirements or Regulations:    Report Aug   Chult Multiple
74 454	Fred Environm	Customer:	ر۷		Sampler's Signature	Matrix Code: DW=drinking water GW=groundwater	Phoenix Sample #	418-8602	418-ME-0	4/18-18-13	418-86-14	4-18.5E-18	4-1881-19		Relingu		Comments, Speci

Data Package

ASP-A

NJ Reduced Deliv. \*

NJ Hazsite EDD

Phoenix Std Report

Other

1

State where samples were collected:



Friday, May 13, 2011

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

903 FARMINGTON AVE BERLIN CT

Sample ID#s: BA29668

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A.B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

May 13, 2011

FOR:

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc.

531 North Main Street Bristol, CT 06010

Sample Information

SOLID

<u>Custody Information</u>

<u>Date</u>

<u>Time</u>

Location Code:

**EAGLEENV** 

Collected by:

BS

05/09/11

0:00

Rush Request:

RUSH##

Received by: Analyzed by: LDF

see "By" below

05/10/11

13:49

P.O.#:

Matrix:

11-015.14

**Laboratory Data** 

SDG ID: GBA29668

Phoenix ID: BA29668

90

903 FARMINGTON AVE BERLIN CT

Client ID:

Project ID:

**EXTERIOR BRICK 1ST CUT OUTSIDE RM 018** 

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	05/11/11		JL	E160.3
Extraction for PCB	Completed			05/10/11		TB/K/E	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	4000	ug/Kg	05/12/11		MH	3540C/8082
PCB-1221	ND	4000	ug/Kg	05/12/11		МН	3540C/8082
PCB-1232	ND	4000	ug/Kg	05/12/11		MH	3540C/8082
PCB-1242	ND	4000	ug/Kg	05/12/11		MH	3540C/8082
PCB-1248	ND ·	4000	ug/Kg	05/12/11		MH	3540C/8082
PCB-1254	19000	4000	ug/Kg	05/12/11		MH	3540C/8082
PCB-1260	ND	4000	ug/Kg	05/12/11		MH	3540C/8082
PCB-1262	ND	4000	ug/Kg	05/12/11		MH	3540C/8082
PCB-1268	ND	4000	ug/Kg	05/12/11		MH	3540C/8082
OA/QC Surrogates							
% DCBP	Diluted Out		%	05/12/11		MH	3540C/8082
% TCMX	Diluted Out		%	05/12/11		МН	3540C/8082

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

May 16, 2011



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

May 16, 2011

## QA/QC Data

SDG I.D.: GBA29668

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 176619, QC Sample	No: BA29211 (BA29668)				3 3 3 3 4 4 4		
Polychlorinated Biphenyls							
PCB-1016	ND	99	86	14.1	•	*	NC
PCB-1221	ND			*			
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	94	96	2.1	*	*	NC
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	86	88	89	1.1	NR	NR	NC
% TCMX (Surrogate Rec)	79	77	77	0.0	NR	NR	NC
Comment:							

<sup>\*</sup> The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

May 16, 2011

Temp ( Pg / of / Data Delivery:	Fax #:	Project P.O: ( -0 5,  4 Phone #: (%0) 5%9-%257 Fax #: (%0) 5%5-7034	HOOS INDOS I	1000 5 100 100 100 100 100 100 100 100 1		MCP Cert.  GW-1  GW-2  GW-3  S-1  S-2  S-3  MWRA eSMART  Other  NJ Hazsite EDD  CT  Other  Other  Other  Other  Other  Other  Other  Other  Other
TODY RECORD	ba/ East Middle   Umpike, P.O. Box 370, Manchester, CT 06040 Email: service@phoenixlabs.com Fax (860) 645-0823  Client Services (860) 645-8726	Farmington Ave, Berlin, CT Project Shis Rose Hone Phone Fandy Le Blanc Fax#				Turnaround:   CT/R    MA
CHAIN OF CUSTODY RECORD	567 East Middle Tumpike, P.O. Box 3 Email: service@phoenixlabs.com Client Services (86	Project: 903 Farmi Report to: 45h15 Invoice to: 8. And	Analysis Request	Time Sampled		5/10 AM 5/10/11 13:49
	LILVII VIA 等限的	customer. Eggle Earlianmental, Inc. Address: 531 North Main 5+ Bristal, CT 06010	]   \$   [a	SL-sludge A=air  Customer Sample Sample Date Identification Matrix Sampled Sampled Outside ISTCMT \$ 5/8		Ben Silverman  Comments, Special Requirements or Regulations:  **Reporting** [imit mut be <   ppm   pp



Tuesday, March 06, 2012

Attn: Mr. Peter Folino Eagle Environmental Inc. **531 North Main Street** Bristol, CT 06010

**Project ID:** 

903 FARMINGTON AVE., BERLIN

Sample ID#s: BB48340 - BB48347

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

**NELAC - #NY11301** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102



Time

0:00

13:53

# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

**SOLID** 

**Location Code:** 

**EAGLEENV** 

Rush Request:

Matrix:

P.O.#:

72 Hour

11-015.14A

**Custody Information** 

Collected by:

Received by: Analyzed by:

LB

see "By" below

**Laboratory Data** 

SDG ID: GBB48340

Phoenix ID: BB48340

Date

02/28/12

02/29/12

903 FARMINGTON AVE., BERLIN

Project ID: Client ID:

4-28-EB-25

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Extraction for PCB	100 Completed	1	%	02/29/12		MB/D	E160.3 SW3540C
PCB (Soxhlet)							
PCB-1016	ND	330	ug/Kg	03/04/12		мн	3540C/8082
PCB-1221	ND	330	ug/Kg	03/04/12		мн	3540C/8082
PCB-1232	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	330	ug/Kg	03/04/12		мн	3540C/8082
PCB-1254	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	ND	330	ug/Kg	03/04/12		МН	3540C/8082
PCB-1262	ND	330	ug/Kg	03/04/12		мн	3540C/8082
PCB-1268	ND	330	ug/Kg	03/04/12		мн	3540C/8082
QA/QC Surrogates							
% DCBP	78		%	03/04/12		MH	30 - 150 %
% TCMX	82		%	03/04/12		мн	30 - 150 %

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102



# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street

Bristol, CT 06010

Sample Information

Matrix:

**SOLID** 

**Location Code:** 

**EAGLEENV** 

**Rush Request:** 

72 Hour

P.O.#:

11-015.14A

**Custody Information** 

**Laboratory Data** 

Collected by:

Received by:

Analyzed by:

LB

see "By" below

SDG ID: GBB48340

**Time** 

0:00

13:53

Phoenix ID: BB48341

Date

02/28/12

02/29/12

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

4-28-EB-26

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Extraction for PCB	100 Completed	1	%	02/29/12		MB/D	E160.3 SW3540C
PCB (Soxhlet)							
PCB-1016	ND	850	ug/Kg	03/04/12		MH	3540C/8082
PCB-1221	ND	850	ug/Kg	03/04/12		МН	3540C/8082
PCB-1232	ND	850	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	850	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	850	ug/Kg	03/04/12		MH	3540C/8082
PCB-1254	ND	850	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	ND	850	ug/Kg	03/04/12		MH	3540C/8082
PCB-1262	ND	850	ug/Kg	03/04/12		MH	3540C/8082
PCB-1268	ND	850	ug/Kg	03/04/12		мн	3540C/8082
QA/QC Surrogates							
% DCBP	76		%	03/04/12		MH	30 - 150 %
% TCMX	77		%	03/04/12		мн	30 - 150 %

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102



**Time** 

0:00

13:53

# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix: **SOLID** 

**Location Code: EAGLEENV** 

**Rush Request:** 

72 Hour

P.O.#:

11-015.14A

**Custody Information** 

Collected by:

Received by:

LB

Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBB48340

Phoenix ID: BB48342

Date

02/28/12

02/29/12

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

4-28-EB-27

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Extraction for PCB	100 Completed	1	%	02/29/12		MB/D	E160.3 SW3540C
	<b>-</b>						
PCB (Soxhlet)	ND	440		03/04/12		MALL	35400/0002
PCB-1016	ND	440	ug/Kg			МН	3540C/8082
PCB-1221	ND	440	ug/Kg	03/04/12		MH	3540C/8082
PCB-1232	ND	440	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	440	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	440	ug/Kg	03/04/12		мн	3540C/8082
PCB-1254	ND	440	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	ND	440	ug/Kg	03/04/12		MH	3540C/8082
PCB-1262	ND	440	ug/Kg	03/04/12		MH	3540C/8082
PCB-1268	ND	440	ug/Kg	03/04/12		MH	3540C/8082
QA/QC Surrogates							
% DCBP	84		%	03/04/12		MH	30 - 150 %
% TCMX	81		%	03/04/12		МН	30 - 150 %

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102



# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

**SOLID** 

**EAGLEENV** 

**Location Code:** Rush Request:

Matrix:

P.O.#:

72 Hour

11-015.14A

**Custody Information** 

**Laboratory Data** 

Collected by: Received by:

Analyzed by:

LB

see "By" below

Date

Time 0:00

02/28/12 02/29/12

13:53

SDG ID: GBB48340

Phoenix ID: BB48343

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

4-28-EB-28

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Extraction for PCB	100 Completed	1	%	02/29/12		MB/D	E160.3 SW3540C
PCB (Soxhlet)							
PCB-1016	ND	890	ug/Kg	03/01/12		мн	3540C/8082
PCB-1221	ND	890	ug/Kg	03/01/12		мн	3540C/8082
PCB-1232	ND	890	ug/Kg	03/01/12		мн	3540C/8082
PCB-1242	ND	890	ug/Kg	03/01/12		мн	3540C/8082
PCB-1248	ND	890	ug/Kg	03/01/12		мн	3540C/8082
PCB-1254	ND	890	ug/Kg	03/01/12		MH	3540C/8082
PCB-1260	ND	890	ug/Kg	03/01/12		MH	3540C/8082
PCB-1262	ND	890	ug/Kg	03/01/12		MH	3540C/8082
PCB-1268	ND	890	ug/Kg	03/01/12		МН	3540C/8082
QA/QC Surrogates							
% DCBP	69		%	03/01/12		мн	30 - 150 %
% TCMX	87		%	03/01/12		мн	30 - 150 %

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Shiller, Laboratory Director

March 06, 2012

Ver 1





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street

Bristol, CT 06010

Sample Information

SOLID

**Custody Information** 

Date

<u>Time</u>

Matrix:

OOLID

Collected by:

02/28/12

0:00

**Location Code:** 

**EAGLEENV** 

Received by:

LB

02/29/12

13:53

Rush Request:

72 Hour

Analyzed by:

see "By" below

P.O.#:

11-015.14A

**Laboratory Data** 

SDG ID: GBB48340

Phoenix ID: BB48344

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

4-28-EB-29 EXTERIOR BRICK AT WINDOW

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Extraction for PCB	100 Completed	1	%	02/29/12		MB/D	E160.3 SW3540C
PCB (Soxhlet)							
PCB-1016	ND	750	ug/Kg	03/01/12		мн	3540C/8082
PCB-1221	ND	750	ug/Kg	03/01/12		МН	3540C/8082
PCB-1232	ND	750	ug/Kg	03/01/12		MH	3540C/8082
PCB-1242	ND	750	ug/Kg	03/01/12		MH	3540C/8082
PCB-1248	ND	750	ug/Kg	03/01/12		МН	3540C/8082
PCB-1254	ND	750	ug/Kg	03/01/12		MH	3540C/8082
PCB-1260	ND	750	ug/Kg	03/01/12		мн	3540C/8082
PCB-1262	ND	750	ug/Kg	03/01/12		MH	3540C/8082
PCB-1268	ND	750	ug/Kg	03/01/12		мн	3540C/8082
QA/QC Surrogates							
% DCBP	70		%	03/01/12		MH	30 - 150 %
% TCMX	81		%	03/01/12		мн	30 - 150 %

#### Comments:

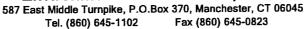
If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director







# QA/QC Report

March 06, 2012

## **QA/QC Data**

SDG I.D.: GBB48340

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 195227, QC Sa	ample No: BB48326 (BB4	8340, BB48341, BB4	8342, B	B48343	, BB48	344, BE	348345)		
Polychlorinated Bipher		,							
PCB-1016	ND	86	93	7.8				40 - 140	30
PCB-1010 PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	83	84	1.2				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	96	82	84	2.4				30 - 150	30
% TCMX (Surrogate Rec)	89	70	74	5.6				30 - 150	30
Comment:									
A LCS and LCS Duplicate were	performed instead of a matri	x spike and matrix spike	duplicate						
QA/QC Batch 195228, QC Sa	ample No: BB48351 (BB4	8346, BB48347)							
Polychlorinated Bipher	nyls - Solid								
PCB-1016	ND	109	112	2.7	97	99	2.0	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	93	97	4.2	*	*	NC	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	75	78	3.9	73	75	2.7	30 - 150	30
% TCMX (Surrogate Rec)	100	78	76	2.6	77	80	3.8	30 - 150	30
Comment:									
								_	

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

\* The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

within QA/QC limits.

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

CHAIN OF CUSTODY RECORD 58 Environmental Laboratories, Inc.

Pg } of --- Out

Temp

Data Delivery:	Fax #:		Emall:
	37 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040	Email: info@phoenixlabs.com Fax (860) 645-0823	Client Services (860) 645-8726

Customer:	一一一 たいこうい	_ -{ }			Project:	963 F	Fire of the Brillia Ct	CT	Project P.O: 11-0:5,14 4	- 015,14 A	Γ
Address:	531 N Ma.	40							Phone #:		
	Bustel CT	1990	010		Invoice to:			-	Fax #:		TIT
Sampler's Signature	Client Sample - Information - Identification	- Identific	ation - Date: 12-12	78-15	Analysis Request	300			Oct.	Nagoo II	$\overline{\mathcal{N}}$
Matrix Code: DW=Drinking Wa SE=Sediment	Matrix Code:  DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other	ırface Wale W=Wipe	or WW=Wasi	te Water					S. Lucos la	May May 3	
PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time	100 mg			\$ 50 5 to	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	TOO BUSINESSED TO SELL	
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48343	4-28-68-27	Λĺ	1-78 R	L	>						T
48343	4-28-68-28	V	4-1812	40	7						Τ
14834	4-28-613-29	Ą	1-18-V		7						[
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	( دسيرايد بر)				Ç		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
48345	4-18-EM-30	5	ていかて	PA	7						
U834(p	4-28-600-31	Ŋ	レースセーレ	wd	7						
48347	4-28-EM-32		2.35.2	wid	المممع						
	(G.x Jerrich may form										
	E windows)										
Relinquished by:	Accepted by:				Datę: , Time:		tol		MA	Data Format	T
1) L. Jen	Emile 1				1/52/2		☐ Direct Exposure ☐ R		MCP Certification	Excel	
•			(X		1/20/12 (5	3.53		GW Protection	Gw-1 Gw-2	☐ PDF ☐ GIS/Key	
	•				<i>t</i> ,		other	GA Mobility	☐ GW-3	EQuIS	
Comments, Specia	Comments, Special Requirements or Regulations:	::			Turnaround:			GB Mobility	S-1	Data Package	
					1 Day*		T. R.	Residential DEC	S-5	Tier II Checklist	
					2 Days  Standard			I/C DEC Other	S-3 MWRA eSMART Other	L Full Data Package* Phoenix Std Report Other	. ±
					Other SURCHARGE APPLIES	L.,.`	State where samples were collected:	s were collect	ed: Cirl	' SURCHARGE APPLIES	တ္သ



Friday, April 22, 2011

Attn: Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

TOWN OF BERLIN-KENSINGTON

Sample ID#s: BA21498 - BA21505

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours.

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A.B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301





587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

7:35

**Analysis Report** 

April 22, 2011

FOR:

Attn: Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

SOLID

**Location Code: Rush Request:** 

**EAGLEENV** 

P.O.#:

Matrix:

RUSH## 11-015.14 **Custody Information** 

**Laboratory Data** 

Collected by:

Received by:

Analyzed by:

LB

see "By" below

SDG ID: GBA21498

Phoenix ID: BA21499

Date

04/18/11

04/19/11

Project ID:

TOWN OF BERLIN-KENSINGTON

Client ID:

ME-02 FAC. A CAULK LINE MORTAR

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/19/11			E160.3
Caulk Extraction for PCB	Completed			04/19/11		BQ/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	960	ug/Kg	04/22/11		MH	3540C/8082
PCB-1221	ND	960	ug/Kg	04/22/11		MH	3540C/8082
PCB-1232	ND	960	ug/Kg	04/22/11		MH	3540C/8082
PCB-1242	ND	960	ug/Kg	04/22/11		MH	3540C/8082
PCB-1248	ND	960	ug/Kg	04/22/11		MH	3540C/8082
PCB-1254	ND	960	ug/Kg	04/22/11		MH	3540C/8082
PCB-1260	ND	960	ug/Kg	04/22/11		MH	3540C/8082
PCB-1262	ND	960	ug/Kg	04/22/11		MH	3540C/8082
PCB-1268	ND	960	ug/Kg	04/22/11		MH	3540C/8082
QA/QC Surrogates							
% DCBP	59 <b>*</b>		%	04/22/11		MH	3540C/8082
% TCMX	35*		%	04/22/11		MH	3540C/8082

Project ID: TOWN OF BERLIN-KENSINGTON
Client ID: ME-02 FAC. A CAULK LINE MORTAR

Phoenix I.D.: BA21499

Parameter Result RL Units Date Time By Reference

#### **Comments:**

\* In order to reach the desired MDL, the sample extracts were run undiluted causing the surrogates to be quantified above their calibration range.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

April 25, 2011





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

7:35

**Analysis Report** 

April 22, 2011

FOR:

Attn: Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

**SOLID** 

**EAGLEENV** 

Location Code: Rush Request:

RUSH##

11-015.14

**Custody Information** 

**Laboratory Data** 

Collected by:

Received by:

Analyzed by:

LB

see "By" below

SDG ID: GBA21498 Phoenix ID: BA21501

Date

04/18/11

04/19/11

Project ID:

TOWN OF BERLIN-KENSINGTON

Client ID:

Matrix:

P.O.#:

ME-06 FAC. D CAULK LINE MORTAR

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/19/11			E160.3
Caulk Extraction for PCB	Completed			04/19/11	·	BQ/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	610	ug/Kg	04/22/11		MH	3540C/8082
PCB-1221	ND	610	ug/Kg	04/22/11		MH	3540C/8082
PCB-1232	ND	610	ug/Kg	04/22/11		MH	3540C/8082
PCB-1242	ND	610	ug/Kg	04/22/11		мн	3540C/8082
PCB-1248	ND	610	ug/Kg	04/22/11		MH	3540C/8082
PCB-1254	*	610	ug/Kg	04/22/11		MH	3540C/8082
PCB-1260	•	610	ug/Kg	04/22/11		MH	3540C/8082
PCB-1262	ND	610	ug/Kg	04/22/11		МН	3540C/8082
PCB-1268	ND	610	ug/Kg	04/22/11		MH	3540C/8082
Total PCBs	5800	610	ug/Kg	04/22/11		MH	3540C/8082
QA/QC Surrogates							
% DCBP	52		%	04/22/11		MH	3540C/8082
% TCMX	36		%	04/22/11		МН	3540C/8082

Project ID: TOWN OF BERLIN-KENSINGTON
Client ID: ME-06 FAC. D CAULK LINE MORTAR

Phoenix I.D.: BA21501

Parameter Result RL Units Date Time By Reference

#### **Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

April 25, 2011

Page 7 of 14 Ver 1

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

April 25, 2011

## **QA/QC** Data

SDG I.D.: GBA21498

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 174711, QC Sample No: BA2	1251 (BA21498, BA2 <sup>-</sup>	1499, BA2	1500, BA21	501, BA2	1502, BA21	503, BA2150	4,
BA21505)							
Polychlorinated Biphenyls							
PCB-1016	ND	97	103	6.0	•	*	NC
PCB-1221	ND						
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	108	99	8.7	*	*	NC
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	84	89	92	3.3	NR	NR	NC
% TCMX (Surrogate Rec)	78	66	71	7.3	NR	NR	NC
Comment:							

<sup>\*</sup> The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

April 25, 2011

Temp Pg i of /	Data Delivery:	Email:	11-015.14		þ		huogo, roscir,	14005/14005/24/25/20	MOSS / MOSS / MOSS	100 8 10 50 0 10 10 10 10 10 10 10 10 10 10 10 10	7 1 4	σ ナ -	_	2001	2 - 8 - 8 - 8 - 9	8 - SOS	2 - 200t	A - 5005			Data Format  ☐ Excel ☐ PDF ☐ GIS/Key ☐ EQuIS		
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CHAIN OF CUSTODY RECORD	70,	rax (860) 645-08 0) 645-8726	Barlin - K	2 Roychewolheries	השיומידו כ																Turnaround: CT/I	Other Res. O' Trans. O' Trans. O' Trans. Other	State where samples were collected:
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A A A A B A A C	の形と	Environmental Laboratories,	31 July 125		+	Client Sample Informatic	AND A	er WW=wastewater S=soil/soild O=other	- }	Customer Sample Identification	TAC, A ONUTCLINE	للحنب				FAE B CAULT LINE	子を、のいいにしている	11年での名が行うが			A Parties	Comments, Special Requirements or Regulations:  Reporting it it is low or (235)	
TITE		Environm	Customer:	Address:		1	Sampler's Signature	Matrix Code: DW=drinking water	GW=groundwate	Phoenix Sample #	1/8×8 8 6 0 1	4/19 ME-02	4/19 16:05	4/18 ME-00	\$118 FE-09	4/19 85-11	4/18 NE-12	1/4 FE-15	3		Resident	Comments, Speci んとんい	



Thursday, April 28, 2011

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID: TOWN OF BERLIN -903 FARMINGTON AVE

Sample ID#s: BA23808 - BA23815

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

**NELAC - #NY11301** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102



# **Analysis Report**

April 28, 2011

FOR:

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street

Bristol, CT 06010

Sample Information

**SOLID** 

**Custody Information** 

Date

Time

Matrix: Location Code:

**EAGLEENV** 

Collected by:

LDF

04/18/11

0:00

RUSH##

Received by:

04/25/11 14:22

**Rush Request:** 

P.O.#:

11-015.14

Analyzed by: see "By" below **Laboratory Data** 

**SDG ID: GBA23808** 

Phoenix ID: BA23809

Project ID:

TOWN OF BERLIN -903 FARMINGTON AVE

Client ID:

4/18 ME-08 1ST CUT LINE MORTAR

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/26/11		JL	E160.3
Soil Extraction for PCB	Completed			04/25/11		*	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	520	ug/Kg	04/26/11		мн	3540C/8082
PCB-1221	ND	520	ug/Kg	04/26/11		мн	3540C/8082
PCB-1232	ND	520	ug/Kg	04/26/11		MH	3540C/8082
PCB-1242	ND	520	ug/Kg	04/26/11		MH	3540C/8082
PCB-1248	ND	520	ug/Kg	04/26/11		MH	3540C/8082
PCB-1254	ND	520	ug/Kg	04/26/11		MH	3540C/8082
PCB-1260	ND	520	ug/Kg	04/26/11		MH	3540C/8082
PCB-1262	ND	520	ug/Kg	04/26/11		MH	3540C/8082
PCB-1268	ND	520	ug/Kg	04/26/11		MH	3540C/8082
QA/QC Surrogates							•
% DCBP	68		%	04/26/11		MH	3540C/8082
% TCMX	52		%	04/26/11		МН	3540C/8082

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

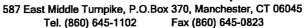
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Phyllis Shiller, Laboratory Director

April 29, 2011

Page 2 of 10 Ver 1







# **QA/QC** Report

April 29, 2011

## **QA/QC Data**

SDG I.D.: GBA23808

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 175475, QC Sample BA23815)	No: BA23813 (BA23808,	BA23809, BA2	3810, BA23	3811, BA2	3812, BA23	813, BA2381	4,
Polychlorinated Biphenyls							
PCB-1016	ND	94	95	1.1	110	109	0.9
PCB-1221	ND						
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	98	101	3.0	114	113	0.9
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	85	84	92	9.1	89	84	5.8
% TCMX (Surrogate Rec)	91	83	84	1.2	83	81	2.4

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

April 29, 2011

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# **CHAIN OF CUSTODY RECORD**

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9

Тетр Data Delivery:

587 East Middle Tumpike, P.O. Box 370, Manchester, CT 06040 Email: service@phoenixlabs.com

Fax (860) 645-082;	645-8726
E CO	(860)
service@phoenixlabs.com	Client Services

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Sample Date Time Natrix Sample Date Time Natrix Sample Date Time Natrix Sample	:ast Middle Furnpike, P.O. Boy nail: service@phoenixlabs.co Client Services (Я	Project Township IS	Report to: A5 Lui S			1										
	M.	Earle Enlinoumental	53V N. MAKIST.	, CT, 0600	Client Sample - Information - Identification	water WW=wastewater S=soil/solid O=other aler SL=sludge A=air	Customer Sample Sample Date Time Identification Matrix Sampled Sampled	- 1stathueBrick 5 4/18 7m	15-cutlise Mother 5 4/18 pm	1 Burdaton- Brick juston 5 4 18 2m	Becutive Market 5 4/18 pm	50118" Lonposite S 7/18"	5011 16" Gaposte 5 4/18	Soil 241 Couposite 5 4/18 pm		McCepted by.



Friday, April 22, 2011

Attn: Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

TOWN OF BERLIN-KENSINGTON

Sample ID#s: BA21498 - BA21505

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

**NELAC - #NY11301** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

7:35

# **Analysis Report**

April 22, 2011

FOR:

Attn: Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

**SOLID** 

**Location Code: Rush Request:** 

**EAGLEENV** RUSH##

P.O.#:

11-015.14

**Custody Information** 

**Laboratory Data** 

Collected by:

Received by:

Analyzed by:

LB

see "By" below

SDG ID: GBA21498

Date

04/18/11

04/19/11

Phoenix ID: BA21504

Project ID:

TOWN OF BERLIN-KENSINGTON

Client ID:

ME-12 FAC B CAULK LINE MORTAR

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/19/11			E160.3
Caulk Extraction for PCB	Completed			04/19/11		BQ/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	77000	ug/Kg	04/22/11		МН	3540C/8082
PCB-1221	ND	77000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1232	ND	77000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1242	ND	77000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1248	ND	77000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1254	*	77000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1260	•	77000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1262	ND	77000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1268	ND	77000	ug/Kg	04/22/11		MH	3540C/8082
Total PCBs	320000	77000	ug/Kg	04/22/11		MH	3540C/8082
QA/QC Surrogates							
% DCBP	Diluted Out		%	04/22/11		мн	3540C/8082
% TCMX	Diluted Out		%	04/22/11		MH	3540C/8082

Project ID: TOWN OF BERLIN-KENSINGTON
Client ID: ME-12 FAC B CAULK LINE MORTAR

Phoenix I.D.: BA21504

Parameter Result RL Units Date Time By Reference

#### **Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director

April 25, 2011

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time 0:00

14:22

# **Analysis Report**

April 28, 2011

FOR:

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

**SOLID** 

**EAGLEENV** 

Location Code: **Rush Request:** 

RUSH##

11-015.14

**Custody Information** 

**Laboratory Data** 

Collected by:

Received by:

Analyzed by:

**LDF** see "By" below

04/25/11

Date

04/18/11

**SDG ID: GBA23808** 

Phoenix ID: BA23812

Project ID:

P.O.#:

TOWN OF BERLIN -903 FARMINGTON AVE

Client ID:

4/18 ME-14 1ST CUT LINE MORTAR

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/26/11		JL	E160.3
Soil Extraction for PCB	Completed			04/25/11		•	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	750	ug/Kg	04/26/11		мн	3540C/8082
PCB-1221	ND	750	ug/Kg	04/26/11		MH	3540C/8082
PCB-1232	ND	750	ug/Kg	04/26/11		MH	3540C/8082
PCB-1242	ND	750	ug/Kg	04/26/11		MH	3540C/8082
PCB-1248	ND	750	ug/Kg	04/26/11		MH	3540C/8082
PCB-1254	860	750	ug/Kg	04/26/11		MH	3540C/8082
PCB-1260	ND	750	ug/Kg	04/26/11		MH	3540C/8082
PCB-1262	ND	750	ug/Kg	04/26/11		MH	3540C/8082
PCB-1268	ND	750	ug/Kg	04/26/11		мн	3540C/8082
QA/QC Surrogates							
% DCBP	69		%	04/26/11		MH	3540C/8082
% TCMX	43		%	04/26/11		MH	3540C/8082

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

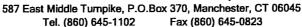
ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

April 29, 2011







# QA/QC Report

April 25, 2011

## **QA/QC Data**

SDG I.D.: GBA21498

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 174711, QC Sample BA21505)  Polychlorinated Biphenyls	No: BA21251 (BA21498,	BA21499, BA2	1500, BA2	1501, BA2	1502, BA21	503, BA2150	4,
PCB-1016	ND	97	103	6.0	•	*	NC
PCB-1221	ND						
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	108	99	8.7	*	*	NC
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	84	89	92	3.3	NR	NR	NC
% TCMX (Surrogate Rec)	78	66	71	7.3	NR	NR	NC
Comment:							

<sup>\*</sup> The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

April 25, 2011

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DY RECORD 70, Manchester, CT Fax (860) 645-06 0) 645-8726	Reychans							Turnaround: CT/R 1 Day* 2 Days* 3 Days* Cstandard Other	* State where samples were collected:
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Inc.		tification	lid O=other Sample Date Time Matrix Sampled Sampled					Accepted by.	or less than
I Laboratories,			SL=sludge A=air SL=sludge A=air Customer Sample Identification		FAC DOWN CIME	FRE- B CAULT LIVE	FRE P CAUK LINE	19	Reporting that to be low or less
Environmenta	Address:	Sampler's Signature Signature Matrix Code:	GW=drinking water GW=groundwater Phoenix Sample #	18-X BEC1	186.03 186.03		4/13 HE 15	Remarks Secondari	Report



Tuesday, March 06, 2012

Attn: Mr. Peter Folino Eagle Environmental Inc. **531 North Main Street** Bristol, CT 06010

Project ID:

903 FARMINGTON AVE., BERLIN

Sample ID#s: BB48340 - BB48347

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

**NELAC - #NY11301** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102



# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

P.O.#:

**SOLID** 

**EAGLEENV** 

**Location Code:** Rush Request:

72 Hour

**Custody Information** 

Collected by:

Received by:

Analyzed by:

LB

see "By" below

02/28/12 02/29/12

Date

0:00

Time

13:53

11-015.14A

**Laboratory Data** 

SDG ID: GBB48340

Phoenix ID: BB48345

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

4-28-EM-30

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%				E160.3
Extraction for PCB	Completed			02/29/12		MB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	610	ug/Kg	03/01/12		мн	3540C/8082
PCB-1221	ND	610	ug/Kg	03/01/12		мн	3540C/8082
PCB-1232	ND	610	ug/Kg	03/01/12		MH	3540C/8082
PCB-1242	ND	610	ug/Kg	03/01/12		MH	3540C/8082
PCB-1248	ND	610	ug/Kg	03/01/12		МН	3540C/8082
PCB-1254	ND	610	ug/Kg	03/01/12		MH	3540C/8082
PCB-1260	ND	610	ug/Kg	03/01/12		MH	3540C/8082
PCB-1262	ND	610	ug/Kg	03/01/12		MH	3540C/8082
PCB-1268	ND	610	ug/Kg	03/01/12		МН	3540C/8082
OA/QC Surrogates							
% DCBP	75		%	03/01/12		MH	30 - 150 %
% TCMX	88		%	03/01/12		МН	30 - 150 %

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

13:53

# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

**SOLID** 

**EAGLEENV** 

**Location Code: Rush Request:** 

72 Hour

11-015.14A

**Custody Information** 

Collected by:

Received by:

Analyzed by:

LB

see "By" below

**Laboratory Data** 

SDG ID: GBB48340

Phoenix ID: BB48346

Date

02/28/12

02/29/12

Project ID:

P.O.#:

903 FARMINGTON AVE., BERLIN

Client ID:

4-28-EM-31

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%				E160.3
Extraction for PCB	Completed			02/29/12		SB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	540	ug/Kg	03/01/12		MH	3540C/8082
PCB-1221	ND	540	ug/Kg	03/01/12		МН	3540C/8082
PCB-1232	ND	540	ug/Kg	03/01/12		MH	3540C/8082
PCB-1242	ND	540	ug/Kg	03/01/12		MH	3540C/8082
PCB-1248	ND	540	ug/Kg	03/01/12		МН	3540C/8082
PCB-1254	ND	540	ug/Kg	03/01/12		MH	3540C/8082
PCB-1260	ND	540	ug/Kg	03/01/12		МН	3540C/8082
PCB-1262	ND	540	ug/Kg	03/01/12		MH	3540C/8082
PCB-1268	ND	540	ug/Kg	03/01/12		МН	3540C/8082
QA/QC Surrogates							
% DCBP	72		%	03/01/12		MH	30 - 150 %
% TCMX	90		%	03/01/12		МН	30 - 150 %

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

13:53

# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

**SOLID** 

**EAGLEENV** 

**Location Code: Rush Request:** 

72 Hour

11-015.14A

**Custody Information** 

**Laboratory Data** 

Collected by:

Received by:

Analyzed by:

LB

see "By" below

SDG ID: GBB48340

Phoenix ID: BB48347

Date

02/28/12

02/29/12

Project ID:

P.O.#:

903 FARMINGTON AVE., BERLIN

Client ID:

4-28-EM-32 EXTERIOR MORTER AT WINDOW

Parameter	Result	RL	Units	Date	Time	Ву	Reference E160.3	
Percent Solid	100	1	%					
Extraction for PCB	Completed			02/29/12		SB/D	SW3540C	
PCB (Soxhlet)								
PCB-1016	ND	780	ug/Kg	03/01/12		мн	3540C/8082	
PCB-1221	ND	780	ug/Kg	03/01/12		мн	3540C/8082	
PCB-1232	ND	780	ug/Kg	03/01/12		MH	3540C/8082	
PCB-1242	ND	780	ug/Kg	03/01/12		MH	3540C/8082	
PCB-1248	ND	780	ug/Kg	03/01/12		МН	3540C/8082	
PCB-1254	ND	780	ug/Kg	03/01/12		MH	3540C/8082	
PCB-1260	ND	780	ug/Kg	03/01/12		MH	3540C/8082	
PCB-1262	ND	780	ug/Kg	03/01/12		MH	3540C/8082	
PCB-1268	ND	780	ug/Kg	03/01/12		MH	3540C/8082	
QA/QC Surrogates								
% DCBP	74		%	03/01/12		MH	30 - 150 %	
% TCMX	88		%	03/01/12		MH	30 - 150 %	

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

March 06, 2012

## QA/QC Data

SDG I.D.: GBB48340

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 195227, QC Sa	ample No: BB48326 (BB4	8340, BB48341, BB4	8342, B	B48343	B, BB48	344, BE	48345)		
Polychlorinated Bipher	nyls - Solid	•							
PCB-1016	ND	86	93	7.8				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND						*	40 - 140	30
PCB-1260	ND	83	84	1.2				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND		•					40 - 140	30
% DCBP (Surrogate Rec)	96	82	84	2.4				30 - 150	30
% TCMX (Surrogate Rec)	89	70	74	5.6				30 - 150	30
Comment:									
A LCS and LCS Duplicate were	performed instead of a matrix	spike and matrix spike	duplicate	•					
QA/QC Batch 195228, QC Sa	ample No: BB48351 (BB48	3346, BB48347)	¥						
Polychlorinated Biphen	yls - Solid								
PCB-1016	ND	109	112	2.7	97	99	2.0	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	93	97	4.2	*		NC	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	75	78	3.9	73	75	2.7	30 - 150	30
% TCMX (Surrogate Rec)	100	78	76	2.6	77	80	3.8	30 - 150	30
Comment:									

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

\* The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

within QA/QC limits.

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis Shiller, Laboratory Director

\* SURCHARGE APPLIES Phoenix Std Report Full Data Package\* Tier II Checklist Project P.O: 11-015,14 A ō Data Package 100 Data Format GIS/Key EQUIS Other PG MA MCP Certification MWRA eSMART Temp J Phone #: Fax #: ☐ GW-2 ☐ GW-1 ☐ GW-3 Other Data Dellvery: Ϋ́ S-2 Emall: State where samples were collected: Residential DEC GW Protection SW Protection GB Mobility CA Mobility 303 Furning to As Belly, CT CT RCP Cert ☐ I/C DEC Other 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 RI Direct Exposure I: Info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726 CHAIN OF CUSTODY RECORD (Residential) Other M<sub>O</sub> Standard
Standard
Other
\*Suncharge Applies Time: nvoice to: Report to: Project: Analysis Request Turnaround:
1 Day\*
2 Days\* 150 Sampled S. S. 17/1 Date: 7-75-12 Time 0 1 દુ 2-18-R AA S.C. Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water

SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other 3 4.78.2 アルカル 23.35.2 J-32-2 7-72-17 Date Sampled 7. 100 17 1.4.1 06610 Client Sample - Information - Identification Sample Matrix M 4 Engle Envisor met Environmental Laboratories, Inc. V) M V Mill Comments, Special Requirements or Regulations: Accepted by 1 4-28- EB-25 4-18-68-27 4-26-68-28 4-28-68-26 (Githerie may form (Exterior borch & 4-18-613-29 4-28-64-32 4-18-EM-30 4-48-15-4 Customer Sample でいついい 子 ( - 1 - Chillis 15. 2 to PHOENIX USE ONLY SAMPLE # Customer: 二分分に Address: 0h&37, e15317 して公丁 4587 4834S 48354 Sampler's Signature



Friday, April 22, 2011

Attn: Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID: TOWN OF BERLIN-KENSINGTON

Sample ID#s: BA21498 - BA21505

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

**NELAC - #NY11301** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



**Analysis Report** 

April 22, 2011

FOR:

Attn: Ashis Roychowdhury Eagle Environmental Inc.

531 North Main Street Bristol, CT 06010

**Sample Information** 

**SOLID** 

**Custody Information** 

Date

Time

Matrix: **Location Code:** 

**EAGLEENV** 

Collected by: Received by:

LB

04/18/11

0:00

RUSH##

04/19/11

7:35

**Rush Request:** P.O.#:

11-015.14

Analyzed by:

**Laboratory Data** 

see "By" below

SDG ID: GBA21498

Phoenix ID: BA21502

Project ID:

TOWN OF BERLIN-KENSINGTON

Client ID:

FE-09 FAC. D FOUNDATION CAULK LINE

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/19/11			E160.3
Caulk Extraction for PCB	Completed			04/19/11		BQ/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	7000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1221	ND	7000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1232	ND	7000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1242	ND	7000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1248	ND	7000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1254	•	7000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1260	•	7000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1262	ND	7000	ug/Kg	04/22/11		MH	3540C/8082
PCB-1268	ND	7000	ug/Kg	04/22/11		MH	3540C/8082
Total PCBs	69000	7000	ug/Kg	04/22/11		МН	3540C/8082
QA/QC Surrogates							
% DCBP	Diluted Out		%	04/22/11		MH	3540C/8082
% TCMX	Diluted Out		%	04/22/11		МН	3540C/8082

Project ID: TOWN OF BERLIN-KENSINGTON

Client ID: FE-09 FAC. D FOUNDATION CAULK LINE

Phoenix I.D.: BA21502

Parameter Result RL Units Date Time By Reference

#### **Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

April 25, 2011

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

April 22, 2011

FOR:

Attn: Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

**SOLID** 

**Custody Information** 

Date

Time

Matrix: Location Code:

**EAGLEENV** 

Collected by:

04/18/11

0:00

RUSH##

Received by:

LB

04/19/11

7:35

Rush Request:

Analyzed by:

see "By" below

SDG ID: GBA21498

P.O.#:

11-015.14

**Laboratory Data** 

Phoenix ID: BA21505

Project ID:

TOWN OF BERLIN-KENSINGTON

Client ID:

FE-15 FAC B CAULK LINE FOUNDATION

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/19/11			E160.3
Caulk Extraction for PCB	Completed			04/19/11		BQ/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	550	ug/Kg	04/20/11		МН	3540C/8082
PCB-1221	ND	550	ug/Kg	04/20/11		MH	3540C/8082
PCB-1232	ND	550	ug/Kg	04/20/11		MH	3540C/8082
PCB-1242	ND	550	ug/Kg	04/20/11		MH	3540C/8082
PCB-1248	ND	550	ug/Kg	04/20/11		MH	3540C/8082
PCB-1254	ND	550	ug/Kg	04/20/11		MH	3540C/8082
PCB-1260	ND	550	ug/Kg	04/20/11		MH	3540C/8082
PCB-1262	ND	550	ug/Kg	04/20/11		МН	3540C/8082
PCB-1268	ND .	550	ug/Kg	04/20/11		MH	3540C/8082
QA/QC Surrogates							
% DCBP	118		%	04/20/11		MH	3540C/8082
% TCMX	100		%	04/20/11		мн	3540C/8082

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director

April 25, 2011



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# QA/QC Report

April 25, 2011

### **QA/QC Data**

SDG I.D.: GBA21498

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 174711, QC Sampl BA21505) Polychlorinated Biphenyls	e No: BA21251 (BA21498,	BA21499, BA2	1500, BA2	1501, BA2	1502, BA2 <sup>-</sup>	503, BA2150	4,
PCB-1016	ND	97	103	6.0		*	NC
PCB-1221	ND						
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	108	99	8.7	*	•	NC
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	84	89	92	3.3	NR	NR	NC
% TCMX (Surrogate Rec)	78	66	71	7.3	NR	NR	NC
Comment:							

<sup>\*</sup> The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis Shiller, Laboratory Director

April 25, 2011

/ Jo f Bd di	;; 		11-015.14			Thoo, too,	HOOS I HOOS IN SON	PHORE ELECTION TO SOLID TO SOL		σ	8 000 000	31501	21502	21503	9 - 00d	2 1505		Data Format  Excel PDF GIS/Key	EQuis Other	Data Package  ASP-A  NJ Reduced Deliv.*	UN Hazsite EDD Phoenix Std Report Other
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DY RECORD	370, Manchester, CT 06040 Fay (860) 645,0823	) 645-8726	Basilin - hansive	Kayaharaharila	11111								1					Turnaround;   CT/R    1 Day*   RCP Cert.     2 Days*   GW Protect     3 Days*   GA Mobility     3 Days*   GR Mobility	Standard Sw Protect. Other Res. Vol.	SURCHARGE Res. Criteria APPLIES Other	State where samples were collected:
CHAIN OF CUSTODY RECORD	587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: service@bhoenixlahs.com Eav (860) 645,0823	Client Services (860) 645-8726		Invoice to: 73 Krule		Analysis Request		2000										1 735m	1	1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S. C. Est
O	587 Eas		からなって		ıtion ,	A 11-8-11 R	0=other	Date Time Sampled Sampled	X	*	*	*	*	*	×	X.		Compad by: Date:	_   - 	r fess-fran <	
	WIX W	Inc	i meally 5 t		Client Sample Information - Identification	THE STANK	WW=wastewater S=soil/soild O:	Customer Sample Sample Identification Matrix	Fac. A Chull Line	THE A CHUIK INCT	からしている。 これのことのことのことのことにはいることにはいることにはいることにはいることにはいることにはいることにはいる。	14.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7	Free P. Co. 16 Can II. Inst.	Control of the first	THE POST OF THE	150000000		Acce.	ments or Regulations:	Reporting limit is law or less	
		onmental	Customer: 4:3/A		Client Sa	Sampler's Signature	Matrix Code:  DW=drinking water WW GW=croundwater SI =	Phoenix Sample #	BY BEGI	ME-02	8	PTR-00	12 15:00 10 15:00	15 SE-1	14:12	7/8 FE15 12		Reinausbyd by	Comments, Special Requirements or Regulations:	Reporting	

ı



Tuesday, March 06, 2012

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

903 FARMINGTON AVE BERLIN CT

Sample ID#s: BB48324 - BB48333

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

**NELAC - #NY11301** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix:

**SOLID** 

**Location Code: EAGLEENV** 

Rush Request: P.O.#:

72 Hour

**Custody Information** 

Collected by:

Analyzed by:

Received by:

SW

see "By" below

02/29/12

Date

02/28/12

0:00 13:51

Time

11-015.14A

**Laboratory Data** 

SDG ID: GBB48324

Phoenix ID: BB48324

Project ID:

903 FARMINGTON AVE BERLIN CT

Client ID:

2-28-FE-16

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%				E160.3
Extraction for PCB	Completed			02/29/12		BB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND .	370	ug/Kg	03/04/12		мн	3540C/8082
PCB-1221	ND	370	ug/Kg	03/04/12		мн	3540C/8082
PCB-1232	ND	370	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	370	ug/Kg	03/04/12		МН	3540C/8082
PCB-1248	ND	370	ug/Kg	03/04/12		МН	3540C/8082
PCB-1254	ND	370	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	ND	370	ug/Kg	03/04/12		MH	3540C/8082
PCB-1262	, ND	370	ug/Kg	03/04/12		MH	3540C/8082
PCB-1268	ND	370	ug/Kg	03/04/12		MH	3540C/8082
QA/QC Surrogates							
% DCBP	81		%	03/04/12		MH	30 - 150 %
% TCMX	75		%	03/04/12		MH	30 - 150 %

Client ID: 2-28-FE-16

Phoenix I.D.: BB48324

Parameter Result RL Units Date Time By Reference

#### **Comments:**

%SOLIDS ASSUMED 100%

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director





Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

**SOLID** Matrix:

**Location Code:** 

**EAGLEENV** 

**Rush Request:** 

72 Hour

11-015.14A

**Custody Information** 

Collected by:

Received by:

SW

Analyzed by: see "By" below Date Time

02/28/12 0:00

02/29/12 13:51

Laboratory Data

SDG ID: GBB48324

Phoenix ID: BB48325

Project ID:

P.O.#:

903 FARMINGTON AVE BERLIN CT

Client ID:

2-28-FE-17

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%				E160.3
Extraction for PCB	Completed			02/29/12		BB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1221	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1232	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1254	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1262	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1268	ND	330	ug/Kg	03/04/12		MH	3540C/8082
OA/QC Surrogates							
% DCBP	81		%	03/04/12		MH	30 - 150 %
% TCMX	83		%	03/04/12		MH	30 - 150 %

Client ID: 2-28-FE-17

Phoenix I.D.: BB48325

Parameter Result RL Units Date Time By Reference

#### **Comments:**

%SOLIDS ASSUMED 100%

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

**SOLID** Matrix:

Location Code: **EAGLEENV** 

**Rush Request:** 

72 Hour

P.O.#:

11-015.14A

**Custody Information** 

**Laboratory Data** 

Collected by:

Received by:

Analyzed by:

see "By" below

SW

Date Time 02/28/12 0:00

02/29/12 13:51

SDG ID: GBB48324 Phoenix ID: BB48326

Project ID:

903 FARMINGTON AVE BERLIN CT

Client ID:

2-28-FE-18

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%				E160.3
Extraction for PCB	Completed			02/29/12		MB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	350	ug/Kg	03/02/12		AW	3540C/8082
PCB-1221	ND	350	ug/Kg	03/02/12		AW	3540C/8082
PCB-1232	ND	350	ug/Kg	03/02/12		AW	3540C/8082
PCB-1242	ND	350	ug/Kg	03/02/12		AW	3540C/8082
PCB-1248	ND	350	ug/Kg	03/02/12		AW	3540C/8082
PCB-1254	ND	350	ug/Kg	03/02/12		AW	3540C/8082
PCB-1260	ND	350	ug/Kg	03/02/12		AW	3540C/8082
PCB-1262	ND	350	ug/Kg	03/02/12		AW	3540C/8082
PCB-1268	ND	350	ug/Kg	03/02/12		AW	3540C/8082
QA/QC Surrogates							
% DCBP	88		%	03/02/12		AW	30 - 150 %
% TCMX	76		%	03/02/12		AW	30 - 150 %

Client ID: 2-28-FE-18

Phoenix I.D.: BB48326

Parameter Result RL Units Date Time By Reference

#### **Comments:**

%SOLIDS ASSUMED 100%

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102



# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

**SOLID** 

**Location Code: EAGLEENV** 

Rush Request:

72 Hour

P.O.#:

Matrix:

11-015.14A

**Custody Information** 

Collected by:

Analyzed by:

Received by:

SW

02/29/12

Date

02/28/12

0:00 13:51

Time

see "By" below

**Laboratory Data** 

SDG ID: GBB48324

Phoenix ID: BB48327

Project ID:

903 FARMINGTON AVE BERLIN CT

Client ID:

2-28-FE-19

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%		•	•	E160.3
Extraction for PCB	Completed			02/29/12		MB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1221	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1232	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1242	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1248	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1254	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1260	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1262	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1268	ND	330	ug/Kg	03/02/12		AW	3540C/8082
QA/QC Surrogates							
% DCBP	90		%	03/02/12		AW	30 - 150 %
% TCMX	76		%	03/02/12		AW	30 - 150 %

Client ID: 2-28-FE-19

Phoenix I.D.: BB48327

Parameter Result RL Units Date Time By Reference

#### **Comments:**

%SOLIDS ASSUMED 100%

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

**SOLID** 

**Time** 

Matrix:

Collected by:

Date 02/28/12 02/29/12

0:00

**Location Code:** 

**EAGLEENV** 72 Hour

Received by: Analyzed by:

SW see "By" below 13:51

Rush Request: P.O.#:

11-015.14A

**Laboratory Data** 

**Custody Information** 

SDG ID: GBB48324

Phoenix ID: BB48328

Project ID:

903 FARMINGTON AVE BERLIN CT

Client ID:

2-28-FE-19A

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Extraction for PCB	100 Completed	1	%	02/29/12		MB/D	E160.3 SW3540C
PCB (Soxhlet)	·						
PCB-1016	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1221	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1232	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1242	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1248	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1254	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1260	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1262	ND	330	ug/Kg	03/02/12		AW	3540C/8082
PCB-1268	ND	330	ug/Kg	03/02/12		AW	3540C/8082
QA/QC Surrogates							
% DCBP	82		%	03/02/12		AW	30 - 150 %
% TCMX	67		%	03/02/12		AW	30 - 150 %

Client ID: 2-28-FE-19A

Phoenix I.D.: BB48328

CHEIR ID. 2-20-1 L-19A

Parameter Result RL Units Date Time By Reference

#### **Comments:**

%SOLIDS ASSUMED 100%

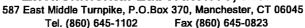
If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis/Shiller, Laboratory Director







# QA/QC Report

March 06, 2012

#### QA/QC Data

SDG I.D.: GBB48324

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 195216, QC S	ample No: BB48197 (BB4832	4, BB48325)							
Polychlorinated Bipher	nyls - Solid								
PCB-1016	ND	109	96	12.7	104	96	8.0	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	NĐ							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	91	83	9.2	*	*	NC	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	83	76	8.8	94	90	4.3	30 - 150	30
% TCMX (Surrogate Rec)	92	85	75	12.5	86	78	9.8	30 - 150	30
Comment:							•		

<sup>\*</sup> The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

QA/QC Batch 195227, QC Sample No: BB48326 (BB48326, BB48327, BB48328, BB48329, BB48330, BB48331, BB48332, BB48333)

PCB-1016	ND	86	93	7.8	40 - 140	30
PCB-1221	ND				40 - 140	30
PCB-1232	ND				40 - 140	30
PCB-1242	ND				40 - 140	30
PCB-1248	ND				40 - 140	30
PCB-1254	ND				40 - 140	30
PCB-1260	ND	83	84	1.2	40 - 140	30
PCB-1262	ND	*			40 - 140	30
PCB-1268	ND				40 - 140	30
% DCBP (Surrogate Rec)	96	82	84	2.4	30 - 150	30
% TCMX (Surrogate Rec)	89	70	74	5.6	30 - 150	30

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

Polychlorinated Biphenyls - Solid

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

Comment:

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

CHAIN OF CUSTODY RECORD 

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726
2-25-12
Time
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4/1
Date:
2-18
0
Turnaround:



Thursday, April 28, 2011

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

**TOWN OF BERLIN -903 FARMINGTON AVE** 

Sample ID#s: BA23808 - BA23815

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

**NELAC - #NY11301** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

April 28, 2011

FOR:

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

SOLID

**Custody Information** 

Date

<u>Time</u>

Location Code:

**EAGLEENV** 

Collected by: Received by: 04/18/11 04/25/11 0:00

Rush Request:

RUSH##

Analyzed by:

see "By" below

LDF

14:22

P.O.#:

Matrix:

11-015.14

**Laboratory Data** 

SDG ID: GBA23808

Phoenix ID: BA23810

Project ID:

TOWN OF BERLIN -903 FARMINGTON AVE

Client ID:

4/18 FB-10 FOUNDATION BRICK JUNCTION

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/26/11		JL	E160.3
Soil Extraction for PCB	Completed			04/25/11		*	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	540	ug/Kg	04/26/11		MH	3540C/8082
PCB-1221	ND	540	ug/Kg	04/26/11		MH	3540C/8082
PCB-1232	ND	540	ug/Kg	04/26/11		MH	3540C/8082
PCB-1242	ND	540	ug/Kg	04/26/11		MH	3540C/8082
PCB-1248	ND	540	ug/Kg	04/26/11		MH	3540C/8082
PCB-1254	ND	540	ug/Kg	04/26/11		MH	3540C/8082
PCB-1260	ND	540	ug/Kg	04/26/11		MH	3540C/8082
PCB-1262	ND	540	ug/Kg	04/26/11		MH	3540C/8082
PCB-1268	ND	540	ug/Kg	04/26/11		MH	3540C/8082
QA/QC Surrogates				•			
% DCBP	62*		%	04/26/11		MH	3540C/8082
% TCMX	37*		%	04/26/11		MH	3540C/8082

Project ID: TOWN OF BERLIN -903 FARMINGTON AVE Client ID: 4/18 FB-10 FOUNDATION BRICK JUNCTION

Phoenix I.D.: BA23810

Parameter Result RL Units Date Time By Reference

#### **Comments:**

\* In order to reach the desired MDL, the sample extracts were run undiluted causing the surrogates to be quantified above their calibration range.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

April 29, 2011



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

April 29, 2011

### QA/QC Data

SDG I.D.: GBA23808

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 175475, QC Sample No: BABA23815)	x23813 (BA23808,	BA23809, BA2	3810, BA23	3811, BA2	3812, BA23	813, BA2381	4,
Polychlorinated Biphenyls							
PCB-1016	ND	94	95	1.1	110	109	0.9
PCB-1221	ND						
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	98	101	3.0	114	113	0.9
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	85	84	92	9.1	89	84	5.8
% TCMX (Surrogate Rec)	91	83	84	1.2	83	81	2.4

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

April 29, 2011

	CHAIN OF CUSTODY RECORD	Tem
		Data Deliver
	587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040	Ę25,
Engineental Inhonatories Inc	Ernaii: service(@phoenixlabs.com Fax (860) 645-0823	' ! ]
Encironmental Encountry, Inc.	Client Services (860) 645-8726	☐ Email:
Customer: Transa Transaction of the Children o	Project: Tawa of Barty, 403 Farm was how Algeriant Bo.	, Odto
Address: NAV N. MAY.		· · · · · · · · · · · · · · · · · · ·
	Report to: HOW S Key Chows Aha n.y Pho	Phone #:
Driotal, CT, 060/0	Invoice to: Bry and a / ESCANI	#
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ike, P.O. Box 370, Manchester, CT 06040 centrabs.com Fax (860) 645-0823	div. 903 Farming Pow Aleroject P.O.	Roy chousethung	D. W. Colonial Coloni				23	<u>Q</u>	a a	\(\frac{\partial}{\partial}\)	769		2, C		Turnaround: CT/RI		S Days* GA Mobility Standard SW Protect.	* SURCHARGE   Res. Criteria	State where samples were collected:
587 East Middle Tumpike, P.O. Box 370, Manchester, CT 06040 Email: service@phoenklabs.com Fax (860) 645-0823	Project: Tauxof Bartin.	Report to: A5 Luis 2		Analysis Request	18.4										ime:	11/100	8	1655 than < 18pm	<b>.</b>
SWOW.	1 From C.	Q,	a piece	7/( % /( /	0=other	Date Time Sampled Sampled	il/h	4/18 pm	5 4/18 gm	3	1/2 mm x	4/18 DM	4/18 pm V		Accepted by: Date:	150/1	2/20 7/20	t be 1855 th	
PHOENIX Environmental Laboratories, Inc.	le Eduinamenta	537 N. MAMUST.	le - Inffirmation - Idontif		WW=wastewater S=soil/solid SL=sludge A=air	Customer Sample Sample Identification Matrix	- 1stathue Brick 5	18-cutilizeNoine 5	3	19 Cative Brich S	Л.	501 16" CayooHe S	Soil 24" Composite 5				A fuebul	Comments, special requirements or regulations:  [Reporting [mit] MUS	
PHO Environmen	Customer: Eggla	Address: 53 K	Clien	Sampler's Signature	Matrix Code: DW=drinking water GW=groundwater	Phoenix Sample#		118-ME-00	7 0 10 10 0 10 10 10 10 10 10 10 10 10 10	21.70.01/1	1_1	4-18.5E-18	488E-19 S		Relinquished by:		-	Conninents, special re-	



Tuesday, March 06, 2012

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Project ID:** 

903 FARMINGTON AVE BERLIN CT

Sample ID#s: BB48324 - BB48333

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

**NELAC - #NY11301** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301





587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

13:51

# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix: **SOLID** 

**Location Code: EAGLEENV** 

**Rush Request:** 

72 Hour

P.O.#:

11-015.14A

**Custody Information** 

**Laboratory Data** 

Collected by:

Analyzed by:

Received by:

SW

02/29/12 see "By" below

SDG ID: GBB48324

Date

02/28/12

Phoenix ID: BB48329

903 FARMINGTON AVE BERLIN CT Project ID:

Client ID:

2-28-FB-20

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Extraction for PCB	100 Completed	1	%	02/29/12		MB/D	E160.3 SW3540C
PCB (Soxhlet)							
PCB-1016	ND	790	ug/Kg	03/02/12		AW	3540C/8082
PCB-1221	ND	790	ug/Kg	03/02/12		AW	3540C/8082
PCB-1232	ND	790	ug/Kg	03/02/12		AW	3540C/8082
PCB-1242	ND	790	ug/Kg	03/02/12		AW	3540C/8082
PCB-1248	ND	790	ug/Kg	03/02/12		AW	3540C/8082
PCB-1254	ND	790	ug/Kg	03/02/12		AW	3540C/8082
PCB-1260	ND	790	ug/Kg	03/02/12		AW	3540C/8082
PCB-1262	ND	790	ug/Kg	03/02/12		AW	3540C/8082
PCB-1268	ND	790	ug/Kg	03/02/12		AW	3540C/8082
QA/QC Surrogates							
% DCBP	84		%	03/02/12		AW	30 - 150 %
% TCMX	76		%	03/02/12		AW	30 - 150 %

Client ID: 2-28-FB-20

Phoenix I.D.: BB48329

RL Units Date **Time** Ву Reference Result **Parameter** 

#### **Comments:**

%SOLIDS ASSUMED 100%

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



**Time** 

0:00

13:51

# **Analysis Report**

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

**SOLID** Matrix:

**Location Code: EAGLEENV** 

Rush Request:

72 Hour

P.O.#:

11-015.14A

**Custody Information** 

Collected by:

Received by:

Analyzed by:

SW

see "By" below

**Laboratory Data** 

SDG ID: GBB48324

Phoenix ID: BB48330

Date

02/28/12

02/29/12

Project ID:

903 FARMINGTON AVE BERLIN CT

Client ID:

2-28-FB-21

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Extraction for PCB	100 Completed	1	%	02/29/12		MB/D	E160.3 SW3540C
PCB (Soxhlet)							
PCB-1016	ND	480	ug/Kg	03/02/12		AW	3540C/8082
PCB-1221	ND	480	ug/Kg	03/02/12		AW	3540C/8082
PCB-1232	ND	480	ug/Kg	03/02/12		AW -	3540C/8082
PCB-1242	ND	480	ug/Kg	03/02/12		AW	3540C/8082
PCB-1248	ND	480	ug/Kg	03/02/12		AW	3540C/8082
PCB-1254	ND	480	ug/Kg	03/02/12		AW	3540C/8082
PCB-1260	ND	480	ug/Kg	03/02/12		AW	3540C/8082
PCB-1262	ND	480	ug/Kg	03/02/12		AW	3540C/8082
PCB-1268	ND	480	ug/Kg	03/02/12		AW	3540C/8082
QA/QC Surrogates							
% DCBP	78		%	03/02/12		AW	30 - 150 %
% TCMX	71		%	03/02/12		AW	30 - 150 %

Client ID: 2-28-FB-21

Phoenix I.D.: BB48330

Parameter Result RL Units Date Time By Reference

#### **Comments:**

**%SOLIDS ASSUMED 100%** 

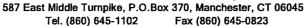
If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director







# QA/QC Report

March 06, 2012

### QA/QC Data

SDG I.D.: GBB48324

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 195216, QC S	ample No: BB48197 (BB483	324, BB48325)								
Polychlorinated Bipher	nyls - Solid									
PCB-1016	ND	109	96	12.7	104	96	8.0	40 - 140	30	
PCB-1221	ND							40 - 140	30	
PCB-1232	ND							40 - 140	30	
PCB-1242	ND							40 - 140	30	
PCB-1248	ND							40 - 140	30	
PCB-1254	ND							40 - 140	30	
PCB-1260	ND	91	83	9.2	•	*	NC	40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	90	83	76	8.8	94	90	4.3	30 - 150	30	
% TCMX (Surrogate Rec)	92	85	75	12.5	86	78	9.8	30 - 150	30	
Comment:										

Comment.

QA/QC Batch 195227, QC Sample No: BB48326 (BB48326, BB48327, BB48328, BB48329, BB48330, BB48331, BB48332, BB48333)

### Polychlorinated Biphenyls - Solid

· · · · · · · · · · · · · · · · · · ·	<del></del>					
PCB-1016	ND	86	93	7.8	40 - 1	10
PCB-1221	ND				40 - 1	10
PCB-1232	ND				40 - 1	10
PCB-1242	ND				40 - 1	10
PCB-1248	ND				40 - 1	10
PCB-1254	ND				40 - 1	Ю
PCB-1260	ND	83	84	1.2	40 - 1	0
PCB-1262	ND				40 - 1	Ю
PCB-1268	ND				40 - 14	Ю
% DCBP (Surrogate Rec)	96	82	84	2.4	30 - 1	Ю
% TCMX (Surrogate Rec)	89	70	74	5.6	30 - 1	Ю
Comment:						

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis Shiller, Laboratory Director

<sup>\*</sup> The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Bo Email: info@phoenixlabs.con Client Services (

Data Delivery

ō

Pd

Temp

Project P.O: 11 - 015, 14 # Phone #:

Fax #:

West France for

Report to:

Project:

Invoice to:

Date: 2-22-12

Client Sample - Information - Identification

Sampler's Signature

06010

Embe ENVISONAMA

Customer:

Address:

Miles

> Bushi

Time Sampled A C Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water wW=Waste Water

7-32-2 イーなかった

1 A M

4-28-ドビー16 たい・ヨゴー37-7

7224

7837

2-28-FE-18

326

4-13.0 2-28.12

Date Sampled 2-18-1

Sample Matrix

Customer Sample Identification

PHOENIX USE ONLY

SAMPLE #

S. C. Į Į D. F 4 3 100

シュ THE PER 1

7-32-1

Accepted by:

11-37-1

2-28- 64- 23

60

1-25-FA-24

(beach o feed after

ルースター ドル・イス

7.18.12

A-28-12

V)

1.25.12

14-4 miles

Curtice be

2-18-01-20 2-29-66-2

330 48329

401-37-85-5

2-28-66-19

Time: 2-12/12 Date:

Comments, Special Requirements or Regulations:

Phoenix Std Report

☐ S-3 ☐ MWRA eSMART

☐ I/C DEC☐ Other

S-2

Residential DEC

GB Mobility

ŝ

Other

Full Data Package\* Tier II Checklist

Data Package

GIS/Key
Gouls
Other

Data Format Excel

MA MCP Certification GW-1

CT RCP Cert

Ri Direct Exposure (Residential)

g

☐ GW-2 ☐ GW-3

SW Protection GA Mobility GW Protection

Other

M<sub>S</sub>

\* SURCHARGE APPLIES

F

State where samples were collected:

o Unys	Standard	Other

\* SURCHARGE APPLIES



Monday, March 12, 2012

Attn: Ms. Brandy LeBlanc Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

903 FARMINTON AVE., BERLIN

Sample ID#s: BB51078 - BB51083

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



**Time** 

0:00

16:57

# **Analysis Report**

March 12, 2012

FOR:

Attn: Ms. Brandy LeBlanc Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix:

SOIL

**EAGLEENV** 

**Location Code:** Rush Request:

72 Hour

Analyzed by: see "By" below **Laboratory Data** 

**Custody Information** 

JT

LB

Collected by:

Received by:

SDG ID: GBB51078

Phoenix ID: BB51081

Date

03/06/12

03/07/12

Project ID:

P.O.#:

903 FARMINTON AVE., BERLIN

Client ID:

3-6-4 EB2

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	03/08/12		LB	E160.3
Extraction for PCB	Completed			03/07/12		BB/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	750	ug/Kg	03/09/12		MH	3540C/8082
PCB-1221	ND	750	ug/Kg	03/09/12		мн	3540C/8082
PCB-1232	ND	750	ug/Kg	03/09/12		MH	3540C/8082
PCB-1242	ND	750	ug/Kg	03/09/12		МН	3540C/8082
PCB-1248	ND	750	ug/Kg	03/09/12		MH	3540C/8082
PCB-1254	ND	750	ug/Kg	03/09/12		мн	3540C/8082
PCB-1260	ND	750	ug/Kg	03/09/12	•	MH	3540C/8082
PCB-1262	ND	750	ug/Kg	03/09/12		MH	3540C/8082
PCB-1268	ND	750	ug/Kg	03/09/12		мн	3540C/8082
QA/QC Surrogates							
% DCBP	86		%	03/09/12		МН	30 - 150 %
% TCMX	91		%	03/09/12		MH	30 - 150 %

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director

March 12, 2012





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

March 12, 2012

FOR:

Attn: Ms. Brandy LeBlanc Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

SOIL

**Location Code:** 

**EAGLEENV** 

Rush Request:

72 Hour

**Custody Information** Collected by:

Received by:

JT LB 03/06/12

0:00

03/07/12

Date

16:57

Time

Analyzed by:

see "By" below

**Laboratory Data** 

SDG ID: GBB51078

Phoenix ID: BB51082

Project ID:

903 FARMINTON AVE., BERLIN

Client ID:

P.O.#:

3-6-5 EB2

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	03/08/12		LB	E160.3
Extraction for PCB	Completed			03/07/12		BB/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	380	ug/Kg	03/09/12		МН	3540C/8082
PCB-1221	ND	380	ug/Kg	03/09/12		MH	3540C/8082
PCB-1232	ND	380	ug/Kg	03/09/12		MH	3540C/8082
PCB-1242	ND	380	ug/Kg	03/09/12		MH	3540C/8082
PCB-1248	ND	380	ug/Kg	03/09/12		MH	3540C/8082
PCB-1254	ND	380	ug/Kg	03/09/12		MH	3540C/8082
PCB-1260	ND	380	ug/Kg	03/09/12		MH	3540C/8082
PCB-1262	ND	380	ug/Kg	03/09/12		MH	3540C/8082
PCB-1268	ND	380	ug/Kg	03/09/12		МН	3540C/8082
QA/QC Surrogates							
% DCBP	79		%	03/09/12		МН	30 - 150 %
% TCMX	83		%	03/09/12		МН	30 - 150 %

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 12, 2012

Page 5 of 6

Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102



**Time** 

0:00

16:57

# **Analysis Report**

March 12, 2012

FOR:

Attn: Ms. Brandy LeBlanc Eagle Environmental Inc. 531 North Main Street

Sample Information

Matrix:

SOIL

**Location Code: EAGLEENV** 

Rush Request:

72 Hour

**Custody Information** 

Collected by: Received by:

JT

LB

Bristol, CT 06010

see "By" below

Laboratory Data

Analyzed by:

SDG ID: GBB51078

Phoenix ID: BB51083

Date

03/06/12

03/07/12

Project ID:

P.O.#:

903 FARMINTON AVE., BERLIN

Client ID:

3-6-6 EB2

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Extraction for PCB	100 Completed	1	%	03/09/12 03/07/12		LB BB/K	E160.3 SW3540C
PCB (Soxhlet)							
PCB-1016	ND	390	ug/Kg	03/09/12		MH	3540C/8082
PCB-1221	ND	390	ug/Kg	03/09/12		MH	3540C/8082
PCB-1232	ND	390	ug/Kg	03/09/12		мн	3540C/8082
PCB-1242	ND	390	ug/Kg	03/09/12		MH	3540C/8082
PCB-1248	ND	390	ug/Kg	03/09/12		MH	3540C/8082
PCB-1254	ND	390	ug/Kg	03/09/12		MH	3540C/8082
PCB-1260	ND	390	ug/Kg	03/09/12		MH	3540C/8082
PCB-1262	ND	390	ug/Kg	03/09/12		MH	3540C/8082
PCB-1268	ND	390	ug/Kg	03/09/12		MH	3540C/8082
QA/QC Surrogates							
% DCBP	84		%	03/09/12		MH	30 - 150 %
% TCMX	84		%	03/09/12		МН	30 - 150 %

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 12, 2012



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

March 12, 2012

### QA/QC Data

SDG I.D.: GBB51078

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 195618, QC Sa	ample No: BB50990 (BB5	1078, BB51079, BB5	1080, B	B51081	, BB51	082, BE	351083)		
Polychlorinated Bipher	nyls - Soil								
PCB-1016	ND	105	112	6.5				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	93	98	5.2				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	77	70	71	1.4				30 - 150	30
% TCMX (Surrogate Rec)	92	76	76	0.0				30 - 150	30
Comment:									
A LCS and LCS Duplicate were	performed instead of a matrix	spike and matrix spike of	dunlicate						

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis Shiller, Laboratory Director

March 12, 2012

Full Data Package" Tier II Checklist
Full Data Package
Phoenix Std Repr Data Package ŏ Excel
PDF
GIS/Key
EQuIS
Other Data Format Pg MCP Certification MWRA eSMART Project P.O: Phone #: Fax #: ☐ GW-3 MCP C GW-1 ☐ GW-2 Data Delivery: S-2 <u>۲</u>-Email: Fax# Residential DEC SW Protection GW Protection Barles GB Mobility CI RCP Cert ☐ I/C DEC Other Le Blonc 587 East Middle Tumpike, P.O. Box 370, Manchester. CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726 RI Direct Exposure (Residential) CHAIN OF CUSTODY RECORD Sos Furminger Other % □ (Sirachy <u>کا</u> در Time: Invoice to: Report to: 2115 Analysis Request Project: **Turnaround**: Z Z 2/2 グン Time Sampled 0,10 00 Ċ Ĵ Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other Date: 3-6-12-2-9-6 Dale Sampled 2-6-17 13-6-12 3-6-12 7.6-17 ろんこし Client Sample - Information - Identification 00000 Sample Matrix Envision pents Environmental Laboratories, Inc. Comments, Special Requirements or Regulations: 17212 Accepted by Cakesur names by Chair inta 3-6-3-EM3 3-6-6-632 L- With Coursel 2-6-4-EB2 3-6-6-182 Customer Sample Identification 51078 3-6-1-EM1 36-1-EM2 Jand PHOENIX USE ONLY SAMPLE # 51079 Relinquished, by: 51082 J 1080 51083 Customer: Address: Sampler's Signature

\* SURCHARGE APPLIES

IJ

State where samples were collected:

Phoenix Std Report



Tuesday, March 06, 2012

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

903 FARMINGTON AVE BERLIN CT

Sample ID#s: BB48324 - BB48333

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

March 06, 2012

FOR: Attn: Mr. Peter Folino

Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

SOLID

**Custody Information** 

Date

<u>Time</u>

Matrix: Location Code:

**EAGLEENV** 

Collected by:

02/28/12

0:00

Rush Request:

72 Hour

Received by: Analyzed by: SW see "By" below

02/29/12 13:51

P.O.#:

11-015.14A

**Laboratory Data** 

SDG ID: GBB48324

Phoenix ID: BB48331

Project ID:

903 FARMINGTON AVE BERLIN CT

Client ID:

2-28-FM-22

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%				E160.3
Extraction for PCB	Completed			02/29/12		MB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1221	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1232	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1242	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1248	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1254	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1260	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1262	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1268	ND	560	ug/Kg	03/02/12		AW	3540C/8082
QA/QC Surrogates							
% DCBP	83		%	03/02/12		AW	30 - 150 %
% TCMX	67		%	03/02/12		AW	30 - 150 %





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



**Analysis Report** 

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

**Custody Information** 

Date **Time** 

Matrix:

**SOLID** 

Collected by:

02/28/12

0:00

**Location Code:** 

Received by:

SW

02/29/12 13:51

**Rush Request:** P.O.#:

72 Hour

Analyzed by:

see "By" below

SDG ID: GBB48324

11-015.14A

**EAGLEENV** 

**Laboratory Data** 

Phoenix ID: BB48332

Project ID:

903 FARMINGTON AVE BERLIN CT

Client ID:

2-28-FM-23

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Extraction for PCB	100 Completed	1	%	02/29/12	-	MB/D	E160.3 SW3540C
PCB (Soxhlet)	·						
PCB-1016	ND	4700	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1221	ND	4700	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1232	ND	4700	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1242	ND	4700	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1248	ND	4700	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1254	•	4700	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1260	•	4700	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1262	ND	4700	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1268	ND	4700	ug/Kg	03/02/12		AW/MH	3540C/8082
Total PCBs	25000	4700	ug/Kg	03/02/12		AW/MH	3540C/8082
QA/QC Surrogates							
% DCBP	Diluted Out		%	03/02/12		AW/MH	30 - 150 %
% TCMX	Diluted Out		%	03/02/12		AW/MH	30 - 150 %

Project ID: 903 FARMINGTON AVE BERLIN CT

Client ID: 2-28-FM-23

Phoenix I.D.: BB48332

Parameter

Result

**RL** Units

**Date** 

Time

Ву

Reference

### Comments:

%SOLIDS ASSUMED 100%

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director

March 06, 2012

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.





587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

13:51

**Analysis Report** 

March 06, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix:

**SOLID** 

**EAGLEENV** 

**Location Code:** Rush Request:

72 Hour

11-015.14A

**Custody Information** 

Collected by:

Received by:

Analyzed by:

SW

see "By" below

**Laboratory Data** 

SDG ID: GBB48324

Phoenix ID: BB48333

Date

02/28/12

02/29/12

Project ID:

P.O.#:

903 FARMINGTON AVE BERLIN CT

Client ID:

2-28-FM-24

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%				E160.3
Extraction for PCB	Completed	•		02/29/12		MB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1221	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1232	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1242	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1248	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1254	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1260	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1262	ND	560	ug/Kg	03/02/12		AW	3540C/8082
PCB-1268	ND	560	ug/Kg	03/02/12		AW	3540C/8082
QA/QC Surrogates							
% DCBP	86		%	03/02/12		AW	30 - 150 %
% TCMX	65		%	03/02/12		AW	30 - 150 %

Project ID: 903 FARMINGTON AVE BERLIN CT

Client ID: 2-28-FM-24

Phoenix I.D.: BB48333

Parameter Result RL Units Date Time By Reference

### **Comments:**

%SOLIDS ASSUMED 100%

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 06, 2012



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

March 06, 2012

### **QA/QC Data**

SDG I.D.: GBB48324

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 195216, QC S	ample No: BB48197 (BB483	324, BB48325)								
Polychlorinated Bipher	nyls - Solid									
PCB-1016	ND	109	96	12.7	104	96	8.0	40 - 140	30	
PCB-1221	ND							40 - 140	30	
PCB-1232	ND							40 - 140	30	
PCB-1242	ND							40 - 140	30	
PCB-1248	ND							40 - 140	30	
PCB-1254	ND							40 - 140	30	
PCB-1260	ND	91	83	9.2	*	*	NC	40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	90	83	76	8.8	94	90	4.3	30 - 150	30	
% TCMX (Surrogate Rec)	92	85	75	12.5	86	78	9.8	30 - 150	30	
Comment:										

<sup>\*</sup> The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

QA/QC Batch 195227, QC Sample No: BB48326 (BB48326, BB48327, BB48328, BB48329, BB48330, BB48331, BB48332, BB48333)

Polychlorinated Bipher	<u>nyls - Solid</u>					
PCB-1016	ND	8	6 9	3 7.8	40 - 140	30
PCB-1221	ND				40 - 140	30
PCB-1232	ND				40 - 140	30
PCB-1242	ND				40 - 140	30
PCB-1248	ND				40 - 140	30
PCB-1254	ND				40 - 140	30
PCB-1260	· ND	8	3 84	1.2	40 - 140	30
PCB-1262	ND				40 - 140	30
PCB-1268	ND				40 - 140	30
% DCBP (Surrogate Rec)	96	8	2 84	2.4	30 - 150	30
% TCMX (Surrogate Rec)	89	7	0 74	5.6	30 - 150	30
Comment:						

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis Shiller, Laboratory Director

March 06, 2012

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Temp ( Data Delivery:	L email:	Project P.O:Phone #:Fax #:		Octr	S. S	of federal folio to the state of the state o													MA	MCP Certification	Gw-1 Gw-2	☐ GW-3	<u> </u>
		n Berlin CT				105/103													CT		GW Protection SW Protection	GA Mobility	GB Mobility
587 East Middle Turnpike, P.O. Box 370, Manchesler, CT 06040 Emall: Info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-0823	0710-010	Wis From 19the Alex															-		e:	Direct Exposure	3;5[ ew	Other	
East Middle Turnpike, P.O. Box Email: info@phoenixlabs.com		Project: Report to: Invoice to:	The state of the s				├─	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7	•	7	, i	7	7		7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<b>\</b>	Date: Time:	1-29/12	12/2/12		Turnaround:
587 E2	Section 2. Control of the section of	010		lcation Date: 2-22-17	ater WW=Waste Water	e Date Time Sampled	2-82-2	1.25.12 pm	1-18.12 PM	2-28.12 PM	1-28.12 PM		12.28.12 ANA	1.28-12. AM		2.68.7 AM	1-18-12 AM	12-28-12 AM					a provide of fundation
<b>建建 </b> ///	avoratories, inc.	tavivensampa, 1 N Main St ei CT (560	17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Circus Sample - Information - Identification	ound Water SW=Surface W S=Soil/Solid W=Wi	Customer Sample Sample Identification Matrix		-28-FE-17 S	8-FE-18 S	2-28-66-19 5	3 - FE-1941 S	(+1-1-my +2	- FB-20 'S	2-20-68-21 5	fer Jahr	- FM- 22 S		-25-FA-24 >	Accepted-by:	>	AND WALL	onto or Boundalians	73,24 = Monte
HOLL	2	Address: 5.3)	S troil C	Sampler's Signature	Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water SE=Sediment SL=Sludge S=Soil/Solid W=Wipe	SE ONLY E#	227 2	325 2	48326 2-28-	1859/ 2-2	10508 2-28	- [(	5000 C	8 3 50 2-ra	13.29) (pr.ch		2000	4	Relinguished by:	Lat Own		nments, Special Requirem	(7-72- Fr72,73,74 2 M.
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☐ Tier II Checklist ☐ Full Dala Package\* ☐ Phoenix Std Report ☐ Other

| S-2 | S-3 | MWRA eSMART | Other

Residential DEC

Turnaround:
1 Day\*
2 Days\*
54 3 Days\*
Standard
Other
SurchArge APPLIES

\* SURCHARGE APPLIES

5

State where samples were collected:



Monday, March 12, 2012

Attn: Ms. Brandy LeBlanc Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

903 FARMINTON AVE., BERLIN

Sample ID#s: BB51078 - BB51083

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

16:57

# **Analysis Report**

March 12, 2012

FOR:

Attn: Ms. Brandy LeBlanc Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

P.O.#:

SOIL

**EAGLEENV** 

**Location Code:** 

**Rush Request:** 

72 Hour

Analyzed by: **Laboratory Data** 

**Custody Information** 

Collected by:

Received by:

see "By" below

JT

LB

SDG ID: GBB51078

Phoenix ID: BB51078

Date

03/06/12

03/07/12

Project ID:

903 FARMINTON AVE., BERLIN

Client ID:

3-6-1 EM2

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	03/08/12		LB	E160.3
Extraction for PCB	Completed			03/07/12		BB/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	540	ug/Kg	03/09/12		MH	3540C/8082
PCB-1221	ND	540	ug/Kg	03/09/12		МН	3540C/8082
PCB-1232	ND	540	ug/Kg	03/09/12		MH	3540C/8082
PCB-1242	ND	540	ug/Kg	03/09/12		MH	3540C/8082
PCB-1248	ND	540	ug/Kg	03/09/12		MH	3540C/8082
PCB-1254	ND	540	ug/Kg	03/09/12		MH	3540C/8082
PCB-1260	ND	540	ug/Kg	03/09/12		МН	3540C/8082
PCB-1262	ND	540	ug/Kg	03/09/12		MH	3540C/8082
PCB-1268	ND	540	ug/Kg	03/09/12		MH	3540C/8082
QA/QC Surrogates							
% DCBP	85		%	03/09/12		MH	30 - 150 %
% TCMX	92		%	03/09/12		МН	30 - 150 %

### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

March 12, 2012

FOR:

Attn: Ms. Brandy LeBlanc Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix:

SOIL

**EAGLEENV** 

**Location Code: Rush Request:** 

72 Hour

**Custody Information** 

**Laboratory Data** 

Collected by: Received by:

JT LB

Date 03/06/12 03/07/12 **Time** 0:00

16:57

Analyzed by:

see "By" below

SDG ID: GBB51078

Phoenix ID: BB51079

Project ID:

P.O.#:

903 FARMINTON AVE., BERLIN

Client ID:

3-6-2 EM2

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	03/08/12		LB	E160.3
Extraction for PCB	Completed			03/07/12		BB/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	380	ug/Kg	03/09/12		MH	3540C/8082
PCB-1221	ND	380	ug/Kg	03/09/12		МН	3540C/8082
PCB-1232	ND	380	ug/Kg	03/09/12		MH	3540C/8082
PCB-1242	ND	380	ug/Kg	03/09/12		MH	3540C/8082
PCB-1248	ND	380	ug/Kg	03/09/12		MH	3540C/8082
PCB-1254	ND	380	ug/Kg	03/09/12		MH	3540C/8082
PCB-1260	ND	380	ug/Kg	03/09/12		мн	3540C/8082
PCB-1262	ND	380	ug/Kg	03/09/12		МН	3540C/8082
PCB-1268	ND	380	ug/Kg	03/09/12		МН	3540C/8082
QA/QC Surrogates							
% DCBP	83		%	03/09/12		MH	30 - 150 %
% TCMX	84		%	03/09/12		MH	30 - 150 %

### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

March 12, 2012

FOR:

Attn: Ms. Brandy LeBlanc Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

SOIL

**EAGLEENV** 

**Location Code:** Rush Request:

72 Hour

**Custody Information** Collected by:

Received by:

Analyzed by:

JT

Date 03/06/12 03/07/12 Time 0:00 16:57

LB see "By" below

P.O.#:

**Laboratory Data** 

SDG ID: GBB51078

Phoenix ID: BB51080

Project ID:

903 FARMINTON AVE., BERLIN

Client ID:

3-6-3 EM2

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	03/08/12		LB	E160.3
Extraction for PCB	Completed			03/07/12		BB/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	340	ug/Kg	03/09/12		MH	3540C/8082
PCB-1221	ND	340	ug/Kg	03/09/12		МН	3540C/8082
PCB-1232	ND ·	340	ug/Kg	03/09/12		MH	3540C/8082
PCB-1242	ND	340	ug/Kg	03/09/12		мн	3540C/8082
PCB-1248	ND	340	ug/Kg	03/09/12		MH	3540C/8082
PCB-1254	ND	340	ug/Kg	03/09/12		MH	3540C/8082
PCB-1260	ND	340	ug/Kg	03/09/12		MH	3540C/8082
PCB-1262	ND	340	ug/Kg	03/09/12		MH	3540C/8082
PCB-1268	ND	340	ug/Kg	03/09/12		МН	3540C/8082
QA/QC Surrogates							
% DCBP	87		%	03/09/12		мн	30 - 150 %
% TCMX	88		%	03/09/12		MH	30 - 150 %

### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

March 12, 2012

### QA/QC Data

SDG I.D.: GBB51078

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 195618, QC Sa	ample No: BB50990 (BB	51078, BB51079, BB5	1080, B	B51081	, BB51	082, BE	351083)	-	
Polychlorinated Bipher	<u>ıyls - Soil</u>								
PCB-1016	ND	105	112	6.5				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	93	98	5.2				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	77	70	71	1.4				30 - 150	30
% TCMX (Surrogate Rec)	92	76	76	0.0				30 - 150	30
Comment:									
A LCS and LCS Duplicate were	performed instead of a matri	x spike and matrix spike o	tuplicate.	-					

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

SURCHARGE APPLIES Phoenix Std Report Full Data Package\* Tier II Checklist Data Package ŏ Data Format ☐ GIS/Key EQUIS Other Other Excel Pg MA MCP Certification MWRA eSMART IJ Project P.O: Phone #: Fax #: ☐ GW-3 ☐ GW-2 I∏ GW-1 Data Delivery: <u>۶</u>-S-2 Email: State where samples were collected: Residential DEC Barlin C SW Protection GB Mobility GA Mobility CT RCP Cert ∏ I/C DEC Other 2 587 East Middle Tumpike, P.O. Box 370, Manchester. CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726 RI Direct Exposure (Residential) CHAIN OF CUSTODY RECORD Seis Furninger Other § □ (Siredy S. 1. 1 Day\*
2 Days\*
3 Days\*
Standard
Other
surcharge Applies Invoice to: Report to: Analysis Request Project: <u> Turnaround:</u> Date; タシー 2/2 ひど Time Sampled 0 13 6 Date: 3-6-12 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other 3.6.2 2.6.1 Date Sampled 7-7-2 7.6.17 3-6-12 かんこと Client Sample - Information - Identification 06010 Sample Matrix Essale Envision ments Environmental Laboratories, Inc. 17/212 Comments, Special Requirements or Regulations: Cettories months born Accepted by caterior nater by by K-lond Coursel 3-6-3-EM3 3-6-6-602 2-6-4-6-18-2 3-6-6-682 Customer Sample 36-1- EM2 3-6-1-Em.2 50.5 PHOENIX USE ONLY Relinquished\_by: S1018 51083 Customer: Address: 2015 SAMPLE # Sampler's Signature



Wednesday, March 07, 2012

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Project ID:

903 FARMINGTON AVE., BERLIN

Sample ID#s: BB48348 - BB48356

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

**NELAC - #NY11301** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

13:53

# **Analysis Report**

March 07, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix:

SOLID

**Location Code: EAGLEENV** 

Rush Request:

72 Hour

11-015.14A

**Custody Information** 

Collected by:

Analyzed by:

Received by:

LB

see "By" below

**Laboratory Data** 

SDG ID: GBB48348

Phoenix ID: BB48354

Date

02/28/12

02/29/12

Project ID:

P.O.#:

903 FARMINGTON AVE., BERLIN

Client ID:

2-28-EA-1

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Extraction for PCB	100 Completed	1	%	02/29/12		SB/D	E160.3 SW3540C
PCB (Soxhlet)							
PCB-1016	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1221	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1232	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1242	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1248	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1254	*	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1260	*	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1262	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1268	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
Total PCBs	690	330	ug/Kg	03/02/12		AW/MH	3540C/8082
QA/QC Surrogates							
% DCBP	106		%	03/02/12		AW/MH	30 - 150 %
% TCMX	97		%	03/02/12		AW/MH	30 - 150 %

Project ID: 903 FARMINGTON AVE., BERLIN

Client ID: 2-28-EA-1

RL

Units

### Comments:

**Parameter** 

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Result

Phyllis/Shiller, Laboratory Director

Date

Time

By

Phoenix I.D.: BB48354

Reference

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

March 07, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

SOLID

Collected by:

**Date** 

**Time** 

**Location Code:** 

Matrix:

P.O.#:

**EAGLEENV** 

Received by:

02/28/12

0:00

Rush Request:

72 Hour

Analyzed by:

LB

02/29/12

13:53

11-015.1

**Custody Information** 

see "By" below

Laboratory Data

SDG ID: GBB48348

Phoenix ID: BB48355

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

2-28-EA-2

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%				E160.3
Extraction for PCB	Completed			02/29/12		SB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1221	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1232	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1242	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1248	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1254	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1260	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1262	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1268	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
QA/QC Surrogates							
% DCBP	89		%	03/02/12		AW/MH	30 - 150 %
% TCMX	91		%	03/02/12		AW/MH	30 - 150 %

### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

March 07, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

**SOLID** 

**EAGLEENV** 

**Rush Request:** 

72 Hour

11-015.14A

**Custody Information** 

Collected by:

Received by:

**Laboratory Data** 

LB

02/28/12 02/29/12

Date

0:00

Time

13:53

Analyzed by: see "By" below

SDG ID: GBB48348

Phoenix ID: BB48356

Project ID:

**Location Code:** 

903 FARMINGTON AVE., BERLIN

Client ID:

Matrix:

P.O.#:

2-28-EA-3 EXTERIOR ASPHALT

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%				E160.3
Extraction for PCB	Completed			02/29/12		SB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1221	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1232	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1242	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1248	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1254	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1260	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1262	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1268	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
QA/QC Surrogates							
% DCBP	82		%	03/02/12		AW/MH	30 - 150 %
% TCMX	84		%	03/02/12		AW/MH	30 - 150 %

### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# QA/QC Report

March 07, 2012

### QA/QC Data

SDG I.D.: GBB48348

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 195228, QC Sa BB48355, BB48356)	ample No: BB48351 (BB483	48, BB48349, BB4	8350, B	B48351	, BB48	352, BE	348353,	BB48354	1,
Polychlorinated Bipher	nyls - Solid								
PCB-1016	ND	109	112	2.7	97	99	2.0	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	93	97	4.2	*	*	NC	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	75	78	3.9	73	75	2.7	30 - 150	30
% TCMX (Surrogate Rec)	100	78	76	2.6	77	80	3.8	30 - 150	30
Comment:									

<sup>\*</sup> The batch MS and MSD recoveries could not be calculated due to the presence of PCB in the unspiked sample. LCS/LCSD recoveries were within QA/QC limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis Shiller, Laboratory Director

	CHAIN OF CUSTODY RECORD	RECORD	Tomo	-
		<u> </u>	Data Deliveru	10 61
mental Laboratories, Inc.	587 East Middle Tumpike, P.O. Box 370, Manchester, CT 05040 Email: Info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726	<del></del>	Cara Delivery:	
Address: 531 M Mar. St.	Project: \$10.3 F2. Report to: Invoice to:	903 Farming to Au Berly CT	Project P.O: 1\- Phone #: Fax #:	-015,14H
Signature Clent Sample - Information - Identification Signature Control of Co			Cirt	tugoi kosot
Matrix Code:  DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water SE=Sediment SL=Sludge S=Soil/Soild W=Wipe O=Diher	600		\$ 6 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Tag age
PHOENIX USE ONLY Customer Sample Sample Time SAMPLE# Identification Matrix Sampled Sampled	$\overline{}$	0.5.10	St. Solver	\$1100 e 1100 c 1500 c 1
3 1-28-5E-20 S 2-20-12	<del> </del>		0 00 00 00	
1.25-56-21 5 1.20-2	Z .			
1(8550 278-86-72 S 228-12 PM	<u> </u>			
J. 122.04 ()				
UXXXX 1 10 56 - 13 5 1.18.1 DM	>			
50 1-28-58-25 2 2.28-12				
CELLENW SES				
7				
2-43-22-C	1			
48356 2-18-6 A-3 5 2-28-12 PM	7			
( ( ( ) 4 / 1 ) ( ) ( ) ( ) ( ) ( )				
Relinquished by:	Date: , Time:	RI CT	MA	Data Format
Jan John	2/20/12 1100	Olrect Exposure RCP Cert		Excel
T CONCIDENT	2091213:58	GW Protection	GW-1	☐ PDF ☐ GIS/Kev
Sommants Cracial Desirements - B. 144		Other GA Mobility		Eouls
Commence, openial nequilentes of Regulations;	Turnaround:	GB Mobility		☐ Uther <u>Data Package</u>
	2 Days*	Residential DEC		☐ Tier II Checklist ☐ Full Data Package*
	Standard	Other	MWRA eSMART	Phoenix Std Report Other
	Other SURCHARGE APPLIES	State where samples were collected:	ected:	* SURCHARGE APPLIES

### APPENDIX C

TABLE 2.1.3: COMPOSITE SAMPLING OF EXTERIOR SOIL - RESULT SUMMARY, LABORATORY RESULTS AND CHAIN OF CUSTODY

# TABLE III PCB CONTAINING MATERIALS SOIL SUMMARY TABLE 903 FARMINGTON AVENUE KENSINGTON, CONNECTICUT

			PROPERTY OF THE PROPERTY OF	THE PARTY OF THE PROPERTY OF THE PARTY OF TH	and the second s			
SAMPLE	SAMPLE					RESULT (PPM)		DOTTING ATTEN
DATE	LOCATION	SAMPLE#	IXPE	DESCRIPTION	ND/<1 PPM	>1 PPM - <50 PPM	>50 PPM	QUANTITY
		4-18-11-SE-17		7	2			
4-18-2011	Area 1	4-18-11-SE-18	Ħ	Soll adjacent to taçade A	QQ			N/A
		4-18-11-SE-19		(composite)	R			•
	Area 2	2-28-SE-20				1.98		70 CF
2-28-2012	Area 3	2-28-SE-21	ш	Gravel between raçade D wall	QN			N/A
	Area 4	2-28-SE-22		and asphalt driveway		PC E		70.07
						1		/0 CF
	Area 5	2-28-SE-23		Soil between façade D wall and		8.4		70 CF
2-28-2012	Area 6	2-28-SE-24	Ŀ	asphalt driveway and soil between facade D wall and		3.06		70 CF
	Area 7	2-28-SE-25		adjacent building		10.2		70 CF
		KEY			ANALYTICAL METHOD	L METHOD		200
ND = NON	ND = NON DETECTED			SW 846-8082 / 3540C				
* Bold samp	le numbers indi	* Bold sample numbers indicates presence of PCB i	in excess of 1 PPM	1 PPM				



Thursday, April 28, 2011

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc. 531 North Main Street Bristol. CT 06010

Project ID:

**TOWN OF BERLIN -903 FARMINGTON AVE** 

Sample ID#s: BA23808 - BA23815

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

**NELAC - #NY11301** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# Analysis Report

April 28, 2011

FOR:

Attn: Mr. Ashis Roychowdhury

Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Cam	nla	Infor	matior
Odill	DIE	HILL	HIGHOL

SOIL

**Custody Information** 

<u>Date</u>

<u>Time</u>

Matrix:

SOIL

Collected by:

LDF

04/18/11 04/25/11 0:00 14:22

Location Code:

EAGLEENV RUSH## Received by: Analyzed by:

see "By" below

Rush Request: P.O.#:

11-015.14

**Laboratory Data** 

SDG ID: GBA23808

Phoenix ID: BA23813

Project ID:

TOWN OF BERLIN -903 FARMINGTON AVE

Client ID:

4/18 SE-17 SOIL 8 INCH COMPOSITE

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid Soil Extraction for PCB	100 Completed	1	%	04/26/11 04/25/11		JL •	E160.3 SW3540C
PCB (Soxhlet)							
PCB-1016	ND	490	ug/Kg	04/26/11		МН	3540C/8082
PCB-1221	ND	490	ug/Kg	04/26/11		MH	3540C/8082
PCB-1232	ND	490	ug/Kg	04/26/11		мн	3540C/8082
PCB-1242	ND	490	ug/Kg	04/26/11		мн	3540C/8082
PCB-1248	ND	490	ug/Kg	04/26/11		мн	3540C/8082
PCB-1254	ND	490	ug/Kg	04/26/11		MH	3540C/8082
PCB-1260	ND	490	ug/Kg	04/26/11		MH	3540C/8082
PCB-1262	ND	490	ug/Kg	04/26/11		MH	3540C/8082
PCB-1268	ND	490	ug/Kg	04/26/11		MH	3540C/8082
OA/QC Surrogates							
% DCBP	84		%	04/26/11		мн	3540C/8082
% TCMX	97		%	04/26/11		MH	3540C/8082

### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

April 28, 2011

FOR:

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc.

531 North Main Street Bristol, CT 06010

Sample Information

Matrix:

SOIL

**EAGLEENV** 

Rush Request:

RUSH##

11-015.14

**Custody Information** 

**Laboratory Data** 

Collected by: Received by:

Analyzed by:

see "By" below

LDF

04/25/11

Date

04/18/11

14:22

Time

0:00

**SDG ID: GBA23808** 

Phoenix ID: BA23814

Project ID:

P.O.#:

**Location Code:** 

TOWN OF BERLIN -903 FARMINGTON AVE

Client ID:

4/18 SE-18 SOIL 16 INCH COMPOSITE

Percent Solid 100 1 % Soil Extraction for PCB Completed  PCB (Soxhlet)	04/26/11	JL	
•	04/05/44		E160.3
PCB (Soxhlet)	04/25/11	•	SW3540C
PCB-1016 ND 480 ug/Kg	04/26/11	MH	3540C/8082
PCB-1221 ND 480 ug/Kg	04/26/11	MH	3540C/8082
PCB-1232 ND 480 ug/Kg	04/26/11	мн	3540C/8082
PCB-1242 ND 480 ug/Kg	04/26/11	MH	3540C/8082
PCB-1248 ND 480 ug/Kg	04/26/11	MH	3540C/8082
PCB-1254 ND 480 ug/Kg	04/26/11	мн	3540C/8082
PCB-1260 ND 480 ug/Kg	04/26/11	мн	3540C/8082
PCB-1262 ND 480 ug/Kg	04/26/11	MH	3540C/8082
PCB-1268 ND 480 ug/Kg	04/26/11	МН	3540C/8082
QA/QC Surrogates	•		
% DCBP 70 %	04/26/11	МН	3540C/8082
% TCMX 80 %	04/26/11	MH	3540C/8082

### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102



# **Analysis Report**

April 28, 2011

FOR:

Attn: Mr. Ashis Roychowdhury Eagle Environmental Inc.

531 North Main Street Bristol, CT 06010

Sample Information

SOIL

**Custody Information** 

Date

Time

Matrix: Location Code:

**EAGLEENV** 

Collected by:

**LDF** 

04/18/11

0:00

Received by:

04/25/11

14:22

**Rush Request:** 

RUSH##

Analyzed by:

see "By" below

**SDG ID: GBA23808** 

P.O.#:

11-015.14

Laboratory Data

Phoenix ID: BA23815

Project ID:

TOWN OF BERLIN -903 FARMINGTON AVE

Client ID:

4/18 SE-19 SOIL 24 INCH COMPOSITE

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%	04/26/11		JL	E160.3
Soil Extraction for PCB	Completed			04/25/11		*	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	450	ug/Kg	04/26/11		мн	3540C/8082
PCB-1221	ND	450	ug/Kg	04/26/11		мн	3540C/8082
PCB-1232	ND	450	ug/Kg	04/26/11		MH	3540C/8082
PCB-1242	ND	450	ug/Kg	04/26/11		МН	3540C/8082
PCB-1248	ND	450	ug/Kg	04/26/11		MH	3540C/8082
PCB-1254	ND	450	ug/Kg	04/26/11		MH	3540C/8082
PCB-1260	ND	450	ug/Kg	04/26/11		МН	3540C/8082
PCB-1262	ND	450	ug/Kg	04/26/11		MH	3540C/8082
PCB-1268	ND ·	450	ug/Kg	04/26/11		MH	3540C/8082
QA/QC Surrogates							
% DCBP	76		%	04/26/11		MH	3540C/8082
% TCMX	90		%	04/26/11		MH	3540C/8082

### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director



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# QA/QC Report

April 29, 2011

### QA/QC Data

SDG I.D.: GBA23808

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 175475, QC Sample BA23815)	No: BA23813 (BA23808,	BA23809, BA2	3810, BA23	3811, BA2	3812, BA23	813, BA2381	4,
Polychlorinated Biphenyls							
PCB-1016	ND	94	95	1.1	110	109	0.9
PCB-1221	ND					•	•
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	98	101	3.0	114	113	0.9
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	85	84	92	9.1	89	84	5.8
% TCMX (Surrogate Rec)	91	83	84	1.2	83	81	2.4

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

Temp (g Pg / of /	Data Delivery:	Email:		Phone #: 840-589-9457	Fax #:	1 1 1 1 1 1 1 1	Regord To Style Control of the Contr	The of the of the off	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	85	~	2			u)	1,	<b>√</b>		MA  MCP Cert.
CHAIN OF CUSTODY RECORD	587 East Middle Tumpike, P.O. Box 370, Manchester, CT 05040 Email: servica@phoenixlabs.com Fax (860) 645-0823	9 (0	Project Town of Bathy, 903 Farming fount	Report to: Ashis Ray chousethung	Invoice to: Brazile UEBLANC		Analysis Request			X 3380	\(\frac{1}{2}\)	x 80 0	× ×	61)	X 800		7		Date: Time: Turnaround: CT/RI MA  1/45/11   178
	, WOTH	Environmental Laboratories, Inc.	Customer: Eggle Edulinarimontal ETUC.	Address: 534 N. MAJALST.	Bristal, CT, 06010	Client Sample - Information - Identification	Sampler's Signature Date	Matrix Code; DW=drinking water WW=wastewater S=soil/solid O=other GW=groundwater SL=sludge A=air	Phoenix Customer Sample Sample Time Sample Health Sampled Sampled Sampled	=07-13+Cut 112Brick 5 14/18	10-cutline Norther 5 4/18	HEN 5 4/18	1/18-BE-13 8 13- Cutline Brick 5 4/18 pm	_	7 5011 8" Lougosite 5 1/0.	Je11 161	Soll 24" Couposited 5		Relinquished by:  Comments, Special Requirements or Regulations:  Reporting linuit Mest be 1855-

) = = =



Wednesday, March 07, 2012

Attn: Mr. Peter Folino
Eagle Environmental Inc.
531 North Main Street
Bristol, CT 06010

Project ID:

903 FARMINGTON AVE., BERLIN

Sample ID#s: BB48348 - BB48356

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301





Tel. (860) 645-1102 Fax (860) 645-0823



**Time** 

0:00

13:53

# **Analysis Report**

March 07, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix:

SOLID

**EAGLEENV** 

**Location Code: Rush Request:** 

72 Hour

P.O.#:

11-015.14A

**Custody Information** 

**Laboratory Data** 

Collected by: Received by:

Analyzed by:

LB

see "By" below

SDG ID: GBB48348

<u>Date</u>

02/28/12

02/29/12

Phoenix ID: BB48348

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

2-28-SE-20

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%				E160.3
Extraction for PCB	Completed			02/29/12		SB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1221	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1232	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1242	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1248	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1254	*	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1260	•	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1262	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1268	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
Total PCBs	330	330	ug/Kg	03/02/12		AW/MH	3540C/8082
QA/QC Surrogates							
% DCBP	121		%	03/02/12		AW/MH	30 - 150 %
% TCMX	112		%	03/02/12		AW/MH	30 - 150 %

Project ID: 903 FARMINGTON AVE., BERLIN Phoenix I.D.: BB48348

Client ID: 2-28-SE-20

Parameter Result RL Units Date Time By Reference

### **Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

13:53

# **Analysis Report**

March 07, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

Sample Information

Matrix: SOLID

**EAGLEENV Location Code:** 

**Rush Request:** 

72 Hour

P.O.#:

11-015.14A

**Custody Information** 

Collected by:

Received by: Analyzed by:

LB

see "By" below

Laboratory Data

SDG ID: GBB48348

Date

02/28/12

02/29/12

Phoenix ID: BB48349

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

2-28-SE-21

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%		•		E160.3
Extraction for PCB	Completed			02/29/12		SB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1221	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1232	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1242	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1248	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1254	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1260	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1262	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1268	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
QA/QC Surrogates							
% DCBP	91		%	03/02/12		AW/MH	30 - 150 %
% TCMX	90		%	03/02/12		AW/MH	30 - 150 %

### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis/Shiller, Laboratory Director





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Analysis Report**

March 07, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix:

SOLID

**EAGLEENV** 

72 Hour

Rush Request: P.O.#:

**Location Code:** 

11-015.14A

**Custody Information** 

Collected by: Received by:

Analyzed by:

LB

see "By" below

02/28/12 02/29/12

<u>Date</u>

0:00 13:53

**Time** 

SDG ID: GBB48348 **Laboratory Data** 

Phoenix ID: BB48350

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

2-28-SE-22 EXTERIOR GRAVEL

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%				E160.3
Extraction for PCB	Completed			02/29/12		SB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1221	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1232	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1242	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1248	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1254	•	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1260	•	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1262	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1268	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
Total PCBs	540	330	ug/Kg	03/02/12		AW/MH	3540C/8082
QA/QC Surrogates							
% DCBP	120		%	03/02/12		AW/MH	30 - 150 %
% TCMX	115		%	03/02/12		AW/MH	30 - 150 %

Project ID: 903 FARMINGTON AVE., BERLIN Client ID: 2-28-SE-22 EXTERIOR GRAVEL

Phoenix I.D.: BB48350

Parameter Result RL Units Date Time By Reference

### **Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis/Shiller, Laboratory Director

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



**Time** 

0:00

13:53

## **Analysis Report**

March 07, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix:

**SOLID** 

**EAGLEENV** 

**Location Code:** Rush Request:

72 Hour

11-015.14A

**Custody Information** 

Collected by:

Received by:

Analyzed by:

LB

see "By" below

**Laboratory Data** 

SDG ID: GBB48348

Phoenix ID: BB48351

Date

02/28/12

02/29/12

Project ID:

P.O.#:

903 FARMINGTON AVE., BERLIN

Client ID:

2-28-SE-23

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%				E160.3
Extraction for PCB	Completed			02/29/12		SB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	330	ug/Kg	03/04/12		мн	3540C/8082
PCB-1221	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1232	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1242	ND.	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1248	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1254	•	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1260	•	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1262	ND	330	ug/Kg	03/04/12		MH	3540C/8082
PCB-1268	ND	330	ug/Kg	03/04/12		MH	3540C/8082
Total PCBs	1400	330	ug/Kg	03/04/12		мн	3540C/8082
OA/QC Surrogates							
% DCBP	108		%	03/04/12		мн	30 - 150 %
% TCMX	111		%	03/04/12		MH	30 - 150 %

Project ID: 903 FARMINGTON AVE., BERLIN

Client ID: 2-28-SE-23

RL

Units

#### **Comments:**

**Parameter** 

\* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Result

Phyllis/Shiller, Laboratory Director

Date

**Time** 

By

Phoenix I.D.: BB48351

Reference

March 07, 2012

Page 7 of 14 Ver 1



#### **Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

0:00

13:53

## **Analysis Report**

March 07, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix:

SOLID

**EAGLEENV** 

**Location Code: Rush Request:** 

72 Hour

11-015.14A

**Custody Information** 

Collected by:

Received by:

Analyzed by:

LB

see "By" below

**Laboratory Data** 

SDG ID: GBB48348

Phoenix ID: BB48352

**Date** 

02/28/12

02/29/12

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

P.O.#:

2-28-SE-24

Parameter	Result	RL	Units	Date	Time	Ву	Reference		
Percent Solid	100	1	%			•	E160.3		
Extraction for PCB	Completed			02/29/12		SB/D	SW3540C		
PCB (Soxhlet)									
PCB-1016	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082		
PCB-1221	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082		
PCB-1232	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082		
PCB-1242	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082		
PCB-1248	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082		
PCB-1254	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082		
PCB-1260	510	330	ug/Kg	03/02/12		AW/MH	3540C/8082		
PCB-1262	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082		
PCB-1268	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082		
QA/QC Surrogates									
% DCBP	90		%	03/02/12		AW/MH	30 - 150 %		
% TCMX	88		%	03/02/12		AW/MH	30 - 150 %		

#### Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis/Shiller, Laboratory Director





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## **Analysis Report**

March 07, 2012

FOR:

Attn: Mr. Peter Folino Eagle Environmental Inc. 531 North Main Street Bristol, CT 06010

**Sample Information** 

Matrix:

SOLID

**Location Code: EAGLEENV** 

Rush Request:

72 Hour

11-015.14A

**Custody Information** 

Collected by: Received by:

Analyzed by:

LB

see "By" below

02/28/12 02/29/12

**Date** 

0:00

**Time** 

13:53

**Laboratory Data** 

SDG ID: GBB48348

Phoenix ID: BB48353

Project ID:

903 FARMINGTON AVE., BERLIN

Client ID:

P.O.#:

2-28-SE-25 EXTERIOR SOIL

Parameter	Result	RL	Units	Date	Time	Ву	Reference
Percent Solid	100	1	%				E160.3
Extraction for PCB	Completed			02/29/12		SB/D	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1221	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1232	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1242	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1248	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1254	•	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1260	•	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1262	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
PCB-1268	ND	330	ug/Kg	03/02/12		AW/MH	3540C/8082
Total PCBs	1700	330	ug/Kg	03/02/12		AW/MH	3540C/8082
QA/QC Surrogates							
% DCBP	118		%	03/02/12		AW/MH	30 - 150 %
% TCMX	114		%	03/02/12		AW/MH	30 - 150 %

Page 9 of 14

Project ID: 903 FARMINGTON AVE., BERLIN

Client ID: 2-28-SE-25 EXTERIOR SOIL

Phoenix I.D.: BB48353

Parameter Result RL Units Date Time By Reference

#### **Comments:**

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director

March 07, 2012

<sup>\*</sup> For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.



#### Environmental Laboratories, Inc.

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## QA/QC Report

April 29, 2011

## QA/QC Data

SDG I.D.: GBA23808

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD
QA/QC Batch 175475, QC Sampl BA23815) Polychlorinated Biphenyls	•	BA23809, BA2	3810, BA23	3811, BA2	3812, BA23	813, BA2381	4,
PCB-1016	ND	94	95	1.1	110	109	0.9
PCB-1221	ND						
PCB-1232	ND						
PCB-1242	ND						
PCB-1248	ND						
PCB-1254	ND						
PCB-1260	ND	98	101	3.0	114	113	0.9
PCB-1262	ND						
PCB-1268	ND						
% DCBP (Surrogate Rec)	85	84	92	9.1	89	84	5.8
% TCMX (Surrogate Rec)	91	83	84	1.2	83	81	2.4

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

**RPD - Relative Percent Difference** 

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis/Shiller, Laboratory Director

April 29, 2011

) Cury	Data Delivery:    Fax #:   Email:	- Дель СТ Project P.O: 11-016, 14 M Phone #: Fax #:	14.000 1.000	The Color of the C	100 00 00 00 10 10 10 10 10 10 10 10 10											CI	CI RCP Certification	CI MA  CI MA  CRCP Cert  CROW Protection  CW-1  SW Protection  CW-2	MA   MA   CT   MA   MCP Certification   GW-1   GW-2   GW-3   GW	MA   MA   MCP Certification   MA   MCP Certification   MCP Certi	MA   Dat   Dat	MA   D   D   D   D   D   D   D   D   D	MA   Dat   Dat
CHAIN OF CUSTODY RECORD	587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: Info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726	Project: 303 Farmus to Mus. Report to: Invoice to:	Analysis Request	363	Time Sampled Sampled		0 M V V V V V V V V V V V V V V V V V V		DM V	7		JA MON	DM V	wy wd		Date:	Date: Time: RI	Date: Time: Date: 2/49/12 11 000	Date: Time: Bate: Date: Bate:	Date: Time: 1 2/29/12 1/00	Date: Time: Date:	Date: Time: I Date: I Date: I Day. I	Date:    2/29/12   1   2   2   2   2   3   3   3   3   3   3
	PHOHINI Invivormental Laboratories, Inc.	Customer: Eugle Endwington L. Address: 531 N Mars St	Sampler's Signature Sample Information Identification Signature	Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other	NLY Customer Sample Sample Date Identification Matrix Sampled	7-28-85-20 5 2-20-12	-18350 1-18-86-22 S 1-18-12	( (34,481.47 ) 122.42 ( )	1 2-18-56-13 5 22	2 2-28-56-14 5	8-85-7	5671 S 248.12	264 2-28-EA-1 S 228-12 265 2-28-EA-2 S 228-12	1 1-28-EA-1 S 2-18-12 3 1-28-EA-2 S 2-18-12 4 1-28-EA-3 S 2-18-12	1-28-EA-1 S 226-1 1-28-EA-1 S 226-12 1-28-EA-2 S 2-28-12 1-28-EA-3 S 2-28-12 (extern 250/LH)	1-18-EA-1 S 1-18-12 1-18-EA-1 S 1-18-12 1-18-EA-3 S 1-18-12 1-18-E A-3 S 1-18-12 (Exterior Spale(4)	1-18-EM-1 S. 1-18-12 1-18-EM-1 S. 1-18-12 1-18-EM-2 S. 1-18-12 1-18-EM-2 S. 1-18-12 1-18-EM-2 S. 1-18-12	1-18-EA-1 S 1-18-12 1-18-EA-1 S 1-18-12 1-18-EA-3 S 1-18-12 1-18-EA-3 S 1-18-12 (extern = 5p. le.   +)	2 2.28-12 5 2.28-12 5 2.28-12	5 278-12 5 278-12 5 278-12	2 278-12 5 278-12 5 278-12 5 278-12	354 1-18-18 2012 355 1-18-18 5 1-18-12 356 1-18-18 4-1 5 1-18-12 356 1-18-18 4-18 350 1-18-18 6 1-18 350 1-18-18 6 1-18 350 1-18-18 6 1-18 350 1-18-18 6 1-18 350 1-18-18 6 1-18 350 1-18-18 6 1-18 350 1-18-18 350 1-18-18 350 1-18-18 350 1-18-18 350 1-18-18-18 350 1-18 350 1-18 350 1-18 350 1-18 350 1-18 350 1-18 350 1-18 350 1-18	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

# APPENDIX D TECHNICAL SPECIFICATION SECTION

# SECTION 02110: SPECIFICATION FOR PCB REMEDIATION OF WINDOW CAULK, SEAM CAULK, WINDOW GLAZING COMPOUND, AND SOIL

PART 1 - GENERAL

#### 1.0 SECTION INCLUDES

- A. Window, foundation, wall seam, and expansion joint caulk and adjacent substrate materials containing greater than or equal to fifty (50) ppm PCB have been identified at the former Kensington Furniture Company Warehouse located at 903 Farmington Avenue in Berlin, Connecticut (subject site).
- B. Window glazing compounds, porous substrates, and soil/gravel containing greater than one (1) but less than fifty (50) ppm PCB have also been identified at the subject site.
- C. Removal of the specified source caulk and glazing compound and removal of contaminated substrate materials, building components (i.e window frames and sashes) and soil shall be performed in accordance with this specification.
- D. Cleaning of steel lintels and I-Beams.

#### 1.1 GENERAL REQUIREMENTS

- A. The Contractor shall furnish all labor, materials, facilities, equipment, installation services, employee training, notifications, permits, licenses, certifications, agreements and incidentals necessary to perform the specified work.
- B. Work shall be performed in accordance with the contract documents, the most recent regulations from the Occupational Safety and Health Administration (OSHA), the United States Environmental Protection Agency (USEPA), the State of Connecticut Department of Energy and Environmental Protection (DEEP) and all other applicable federal, state and local agencies. Whenever the requirements of the above references conflict or overlap, the more stringent provision shall apply.
- C. All project personnel engaged in the remediation work covered under this section shall be trained with OSHA 40-Hour HAZWOPER training in accordance with OSHA Regulations 29 CFR 1910 and 1926.
- D. The Contractor shall provide a Project Health and Safety Officer having a minimum of eight (8) hours of supervisor training in hazardous waste site operations in accordance with the requirements of 29 CFR 1910. The supervisor must be on site at all times during remediation work.
- E. <u>Grey caulk associated with the exterior metal windows, foundation and wall seam caulk, and expansion joint caulk have also been confirmed to contain regulated concentrations of asbestos.</u>
- F. The Contractor shall be responsible for removing and disposing of all scheduled materials as indicated in Section 1.3 below and on Diagram 1-3 (PCB 1.1) of the Self Implementing On-Site Cleanup and Disposal Plan (SIP).

#### 1.2 PCB Waste Classification

Materials classified as PCB Bulk Product Waste include PCB Remediation Waste greater than or equal to fifty (50) ppm (i.e brick/mortar and concrete) to simplify the characterization of Remediation Wastes with regard to handling, transportation, and disposal requirements.

Disposable cleaning and abatement equipment, tools, and supplies such as containment barriers, rags, disposable protective clothing, etc. used in the remediation of PCB Bulk Product Wastes, Mixed Regulated Asbestos – PCB Bulk Product Waste, or PCB Remediation Waste greater than or equal to fifty (50) ppm shall be handled and disposed of as Mixed Regulated Asbestos – PCB Remediation Waste greater than fifty (50) ppm.

Disposable cleaning and abatement equipment, tools, and supplies such as containment barriers, rags, disposable prottective clothing, etc. used in the remediation of the window glazing compounds and sashes, the course 2 brick and mortar on Side B of the building, and the soil may be disposed of as PCB Remediation Waste less than fifty (50) ppm.

Source Material	Locations	PCB ppm	Quantity	Associated Substrate	PCB ppm (designation)	Quantity
Grey window glazing compound	Exterior metal window sashes	<50	329 LF	Metal/glass sashes	<50	47 sashes
Grey window	Exterior metal window frames Facades A and D	≥50	127 LF Brick/Mortar		Course 1: ≥50 Course 2: ND	127 LF
frame caulk	Exterior metal window frames Façade B	for metal w frames ≥50 12 LF Brick/N		Brick/Mortar	Course 1: ≥50 Course 2: <50 Course 3: ND	12 LF
	Foundation seams Facade B	≥50	12 LF	Concrete	Course 1: ND	N/A
Grey foundation seam caulk	Foundation seams Facade D	≥50	48 LF	Concrete	Course 1: ≥50 Course 2: ND	119 LF
Seam Caulk	Foundation seams Facades B and D	≥50	24 LF	Brick/Mortar	Course 1: ND	24 LF
Grey wall	Exterior walls	>50	40 I E	Brick/Mortar	Course 1: ≥50 Course 2: ND	26 LF
seam/crack caulk	Facades A, B, and D	≥50	49 LF	Steel lintels and I-beams	Assumed: ≥50	23 LF
Grey	Expansion joint Façade D	≥50	1 LF	Concrete	Course 1: ≥50 Course 2: ND	1 LF
expansion joint caulk	Expansion joint Façade D	≥50	20 LF	Brick/Mortar	Course 1: ≥50 Course 2: ND	40 LF
	Façade D, Area 2				< 50	70 CF
	Façade D, Area 4				< 50	70 CF
Soil/Gravel	Façade D, Area 5			Soil/Gravel	< 50	70 CF
	Façade D, Area 6				< 50	70 CF
	Façade D, Area 7				< 50	70 CF

#### 1.3 SUBMITTALS

- A. The following documents shall be submitted to the Owner's Consultant:
  - 1. Work Plan: A written work plan that describes the methods to be used for the removal and containment of the window frames, window sashes, caulk, glazing compound, and

associated debris, and the contractor's plan to protect workers and to prevent PCB contamination migration from the work areas. The work plan shall include floor plans and/or site plans indicating the proposed work areas, phasing and containment and security barriers for all PCB removal work as outlined in this Specification.

- 2. Training Documentation: Documentation of OSHA 40-Hour HAZWOPER Training for all employees and subcontractors to be used for the remediation work and 8-Hour HAZWOPER Supervisor Training for the designated on-site Health and Safety Officer for the remediation work.
- 3. PCB Disposal Plan: A written plan that details the Contractor's plan for loading, temporary storage, transportation, and disposal of PCB-containing wastes generated during the project. The Disposal Plan shall identify:
  - a. Waste packaging, labeling, placarding, and manifesting procedures,
  - b. The name, address and 24-hour contact number for the proposed treatment or disposal facility or facilities to which waste generated during the project will be transported.
  - c. The name, address, contact person(s), and state-specific permit numbers for proposed waste transporters, and EPA identification number for firms that will transport hazardous waste.
  - d. The license plate numbers of vehicles to be used in transporting of the waste from the site to the disposal facility.
  - e. The route(s) by which the waste will be transported to the designated disposal facility, and states or territories through which the waste will pass if the waste is to be disposed of outside of the State of Connecticut.
- 4. Material Safety Data Sheets: Material Safety Data Sheets (OSHA Form 174 or equivalent) and manufacturer's information shall be provided for all chemicals and materials to be used during the project.
- B. The following documents shall be submitted to the Owner's Consultant within twenty one (21) calendar days following removal of waste from the site:
  - 1. Waste Profile Sheets
  - 2. Pre-Disposal Analysis Test Results (If required by disposal facility)
  - 3. Manifests signed by the disposal facility
  - 4. Tipping Receipts provided by the disposal facility
  - 5. Certification of Final Treatment Disposal signed by the responsible disposal facility official.

#### 1.4 APPLICABLE STANDARDS AND REGULATIONS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only. Where a conflict or overlap among regulations and/or these specifications exist, the most stringent requirements shall apply. The Owner's Consultant will determine which requirements are most stringent.
  - 1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
    - a. ANSI,Z89,1 Personnel Protective Equipment-Protective Headwear for Industrial Workers-Requirements (Latest Revision) ANSI,Z87

#### 2. CODE OF FEDERAL REGULATIONS (CFR)

a.	29 CFR Subpart D	Walking-Working Surface
b.	29 CFR 1910.120	Hazardous Waste Operations and Emergency
		Response
c.	29 CFR 1910.134	Respiratory Protection Standard
d.	29 CFR 1910.1200	Hazard Communication
e.	29C FR 1926.20	General Health and Safety Provisions
f.	29CFR 1926.57	Ventilation
g.	29 CFR 1926.59	Hazard Communication Program
ĥ.	29 CFR 1926.62	Lead Exposure in Construction
i.	29 CFR 1926.65	Hazardous Waste Operations and Emergency
		Response
j.	29 CFR 1926.95	Criteria for Personal Protective Equipment
k.	29 CFR 1926, Subpart H	Materials Handling, Storage, Use and Disposal
1.	29 CFR 1926, Subpart L	Scaffolding
m.	29 CFR 1926, Subpart M	Fall Protection
n.	29 CFR 1926, Subpart X	Ladders
0.	29 CFR 1926, Subpart Z	Toxic and Hazardous Substance
р.	40 CFR 50.6	National Primary and Secondary Ambient Air
Ρ.	10 6111 50.0	Quality Standards for Particulate Matter
q.	40 CFR 260	Hazardous Waste Management System: General
r.	40 CFR 261	Identification and Listing of Hazardous Waste
S.	40 CFR 262	Standards Applicable to Generators of
5.	10 C11( 202	Hazardous Waste
t.	40 CFR 263	Standards Applicable to Transporters of
٠.	10 CTR 203	Hazardous Waste
u.	40 CFR 264	Standards for Owners and Operators of
и.	10 6111 20 1	Hazardous Waste Treatment, Storage, and
		Disposal Facilities
v.	40 CFR 265	Interim Status Standards for Owners and
		Operators of Hazardous Waste Treatment,
		Storage, and Disposal Facilities
W.	40 CFR 268	Land Disposal Restrictions
х.	40 CFR 700	Toxic Substances Control Act (TSCA)
у.	40 CFR 761	PCBs Manufacturing, Processing, Distribution
<i>J</i> .		in Commerce, and Use Prohibitions
Z.	49 CFR 105	Hazardous Materials Program. Definitions and
		General Procedures
aa.	49 CFR 171	General Information, Regulations and
		Definitions
bb.	49 CFR 172	Hazardous Material Tables. Special Provisions,
		Hazardous Materials Communications,
		Emergency Response Information, and Training
		Requirements
cc.	49 CFR 173	Shippers-General Requirements for Shipments
		and Packagings
dd.	49 CFR 177	Carriage by Public Highway
ee.	49 CFR 178	Specifications for Packaging's
		T

#### 3. NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH)

- Publication Number 87-10B Respiratory Decision Logic NIOSH/OSHA Booklet 3142 Lead in Construction a.
- b.

- c. Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities (NIOSH Publication 85-115)
- 4. U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
  - a. PUB 3126 Working with Lead in the Construction Industry
  - b. 29 CFR 1910, Subpart I, Appendix B-Non-Mandatory Compliance Guidelines for Hazard Assessment and Personal Protective Equipment Selection
- 5. REGULATIONS OF CONNECTICUT STATE AGENCIES (RCSA)
  - a. Hazardous Waste 22a-449(c)-100 through 119
  - b. Hazardous Waste Transporter Permits 22a-449(c)-11
  - c. Permit Fees for Hazardous Waste Materials Management 22a-454-1
- 6. UNITED STATES ENVIRONMENTAL PROTECTION AGENCY GUIDANCE
  - a. Polychlorinated Biphenyl (PCB) Site Revitalization Guidance Under the Toxic Substances Control Act
- 1.5 POSTING AND RECORD MAINTENANCE REQUIREMENTS
- A. The following items shall be conspicuously displayed proximate to but outside of remediation work areas. The contractor shall assure that the posted regulations are not altered, defaced or covered by other materials.
- B. Exit Routes
  - 1. Emergency exit procedures and routes
- C. Emergency Phone Numbers
  - 1. A list Indicating the telephone numbers and locations of the local hospital(s); the local emergency squad; the local fire department; the local police department; the Poison Control Center; Chemical Transportation Emergency Center (CHEMTREC); the Connecticut State Department of Public Health's office; the contractor (on-site and after hours numbers); and the environmental consultant (on-site and after hours numbers).
- D. Warning Signs
  - 1. Warning signs shall be In English and the language of any workers on-site who do not speak English, and be of sufficient size to be clearly legible and display the following:

WARNING:
HAZARDOUS WASTE WORK AREA
PCBs-POISON
NO SMOKING, EATING OR DRINKING
AUTHORIZED PERSONNEL ONLY
PROTECTIVE CLOTHING IS REQUIRED IN THIS AREA

#### E. Items Available On-Site

- 1. The contractor shall maintain the following items on-site and available for review by all employees and authorized visitors:
  - a. Project Health and Safely Plan (HASP)
  - b. Certificates of Training for all workers and the project Supervisor
  - c. Codes, Standards and Publications
    - 1) Copies of applicable codes, standards, and publications
  - d. MSDS
    - 1) Material Safety Data Sheets (MSDS) for all chemicals used during the project.
  - e. Compliance Programs
    - 1) Copies of the contractor's written hazard communication, respiratory protection, and confined space entry programs.

#### 1.6 MINIMUM REQUIREMENTS FOR WORKER HEALTH AND SAFETY

#### A. GENERAL

- 1. The contractor is responsible and liable for the health and safety of all on-site personnel and the off-site community affected by the project. All on-site workers or other persons entering the remediation/abatement work areas, decontamination areas or waste handling and staging areas shall be knowledgeable of and comply with the requirements of the site-specific Health and Safety Plan (HASP) at all times. The contractor's HASP shall comply with all applicable federal, state and local regulations protecting human health and the environment from the hazards posed by the work to be performed under this project.
- 2. The contractor shall not initiate on-site work in the contaminated areas until the HASP has been finalized, and approved by the Owner's Consultant.
- 3. Consistent disregard for the provisions of the HASP shall be deemed as sufficient cause for immediate stoppage of work and termination of the Contract or any Subcontracts without compromise or prejudice to the rights of the Owner or the Architect.
- 4. Any discrepancies between the contractor's HASP and these specifications or federal and state regulations shall be resolved in favor of the more stringent requirements that provide the highest degree of protection to the project personnel and the surrounding community and environment, as determined by the Owner's Consultant.
- 5. In addition to exposure concerns relating to the presence of PCBs, other health and safety considerations will apply to the work. The contractor shall be responsible for recognizing such hazards and shall be responsible for the health and safety of contractor employees at all times. It is the contractor's responsibility to comply with all applicable health and safety regulations.

#### B. HEALTH AND SAFETY PLAN

- 1. The contractor shall prepare and submit a site-specific Health and Safety Plan (HASP) to the Owner's Consultant a minimum of twenty one (21) business days prior to commencement of remediation work. The HASP shall govern all work conducted at the site during the remediation of caulk and related debris: waste handling, sampling, and management; and waste transportation.
- 2. At a minimum, the HASP shall address the requirements set forth in 29 CFR 1910.120, as further outlined below:
  - a. Health and Safety Organization
  - b. Site Description and Hazard Assessment
  - c. Training (asbestos abatement and HAZWOPPER)
  - d. Medical Surveillance
  - e. Work Areas
  - f. Personal Protective Equipment
  - g. Personal Hygiene and Decontamination
  - h. Standard Operating Procedures and Engineering Controls
  - i. Emergency Equipment and First Aid Provisions
  - j. Equipment Decontamination
  - k. Exposure Monitoring
  - 1. Telephone List
  - m. Emergency Response and Evacuation Procedures and Routes
  - n. Site Control
  - o. Permit-Required Confined Space Procedures (If Applicable)
  - p. Spill Containment Plan
  - q. Heat and Cold Stress
  - r. Record Keeping
  - s. Community Protection Plan
  - t. Decontamination of steel lintels and I-Beams
- 3. The HASP shall be reviewed by all persons prior to entry into the remediation/abatement, decontamination, or waste staging areas, whether a representative of the contractor, owner, architect/engineer, environmental consultant, subcontractors, waste transporter, or federal, state, or local regulatory agency. Such review shall be acknowledged and documented by the contractor's Health and Safety Officer by obtaining the name, signature and affiliation of all persons reviewing the HASP.
- 4. The HASP shall be maintained so as to be readily accessible and reviewable by all site personnel throughout the duration of the-remediation project and until all waste materials are removed from the site and disposed of at the appropriate disposal facility.
- 5. The Contractor's on-site Health and Safety Officer shall be responsible for ensuring that project personnel and site visitors are informed of and comply with the provisions of the HASP at all times during the project.

#### C. WORK AREAS

- 1. The contractor shall establish and clearly identify work areas in the field. Access by equipment, site personnel, and the public to the work areas shall be limited as follows:
  - a. <u>Abatement Zone-The Abatement Zone(s)</u> shall consist of all areas where remediation, waste handling and staging activities are ongoing and the

immediately surrounding locale or other areas where contamination could occur. Each Abatement Zone shall be visibly delineated with orange construction fencing at a minimum, and restricted from access by all persons except those directly necessary to the completion of the respective remediation tasks. The Abatement Zones shall be relocated and delineated as necessary as work progresses from one portion of the project site to another, to limit access to each remediation area and to minimize risk of exposure to site workers and the general public. Access shall be controlled at the periphery of the Abatement Zones to regulate the flow of personnel and equipment into and out of each zone and to help verify that proper procedures for entering and exiting are followed. All persons within the Abatement Zones shall have all required training and wear the appropriate level of protection established in the HASP.

- b. <u>Decontamination Zone</u>-The Decontamination Zone is the transition zone between the remediation area and the clean support zone of the project site, and is intended to reduce the potential for contaminants from being dispersed from the Abatement Zone to clean areas of the site. The Decontamination Zone shall consist of a buffer area surrounding each Abatement Zone through which the transfer of equipment, materials, personnel and containerized waste products will occur and in which decontamination of equipment, personnel, and clothing will occur, The Decontamination Zones shall be clearly delineated with orange construction fencing at a minimum and labeled with signage as provided in Part 1.6 of this Section. All emergency response and first aid equipment shall be readily maintained in these Zones. All protective equipment and clothing shall be removed or decontaminated in the Decontamination Zone prior to exiting to the Support Zone.
- c. <u>Support Zone</u>-The Support Zone will consist of the area outside the Decontamination Zones and the remainder of the project site. Administrative and other support functions and any activities that by nature need not be conducted in the Abatement or Decontamination Zone related to the project shall occur in the Support Zone. Access to the Abatement and Decontamination Zones shall be controlled by the Health and Safety Officer and limited to those persons necessary to complete the remediation work and who have reviewed and signed the HASP

#### D. PERSONNEL PROTECTIVE EQUIPMENT

- 1. The contractor shall be responsible to determine and provide the appropriate level of personal protective equipment in accordance with applicable regulations and standards necessary to protect the contractor's employees and the general public from all hazards present.
- 2. The contractor shall provide all employees with the appropriate safety equipment and protective clothing to ensure an appropriate level of protection for each task, taking into consideration the chemical, physical, ergonomic and biological hazards posed by the site and work activities.
- 3. The contractor shall establish in the HASP criteria for the selection and use of personal protective equipment (PPE).
- 4. The PPE to be utilized for the project shall be selected based upon the potential hazards associated with the project site and the work to be performed. Appropriate protective clothing shall be worn at all times within the Abatement Zone.

- 5. The contractor shall provide the appropriate level of respiratory protection to all field personnel engaged in activities where respiratory hazards exist or there is a potential for such hazard to exit.
- 6. The contractor shall provide, as necessary, protective coveralls, disposable gloves and other protective clothing for all personnel that will be actively involved in remediation activities or waste handling activities or otherwise present in the Abatement Zones. Coveralls shall be of Tyvek or equivalent material. Should the potential for exposure to liquids exist, splash-resistant disposable suits shall be provided and utilized.
- 7. Protective coveralls, and other protective clothing shall be donned and removed within the Decontamination Zone and shall be disposed of at the end of each day. Ripped coveralls shall be immediately replaced after appropriate decontamination has been completed to the satisfaction of the Health and Safety Officer. Protective clothing shall not be worn outside of the Decontamination Zone.
- 8. Hard Hats, protective eyewear, rubber boots, and/or other non-skid footwear shall be provided by the contractor as required for workers and authorized visitors, Safety shoes and hard hats shall be in conformance with ANSI Z89.1 (1969) and ANSI 241.1 (1967), respectively.
- 9. All contaminated protective clothing, respirator cartridges, and disposable protective items shall be placed into proper containers to be provided by the contractor for transport and proper disposal in accordance with 40 CFR 761.61(a)(5)(v)(A).

#### E. EMERGENCY EQUIPMENT AND FIRST AID REQUIREMENTS

- 1. The contractor shall provide and maintain at the site, at a minimum, the following Emergency and First Aid Equipment:
  - a. Fire Extinguishers: A minimum of one (1) fire extinguisher shall be supplied and maintained at the site by the contractor throughout the duration of the project. Each extinguisher shall be a minimum of a 20-pound Class ABC dry fire extinguisher with Underwriters Laboratory approval per 29 CFR 1910.157.]
  - b. First Aid Kit: A minimum of one (1) first aid kit meeting the requirements of 29 CFR 1910.151 shall be supplied and maintained at the site by the contractor throughout the duration of the project.
  - c. Communications: A telephone communications (either cellular or land line) shall be provided by the contractor for use by site personnel at all times during the project.
- 2. The Health and Safety Officer shall be notified immediately in the event of personal injury, potential exposure to contaminants, or other emergency. The Health and Safety Officer shall then immediately notify the Owner's Consultant of same.
- 3. If a member of the work crew demonstrates symptoms of heat or cold stress, injury, chemical exposure or other similar issue, another team member present within the delineated abatement zone (i.e., suitably equipped with appropriate PPE provisions) should remove the affected person from the delineated work site and signal/communicate to the Health and Safety Officer of the incident. Precautions should be taken to avoid exposure of other individuals to contaminated media.

- 4. An evaluation of the person's condition shall be made by the Health and Safety Officer, to determine the appropriate course of action to administer first aid or other emergency response provision. The Health and Safety Officer shall assess the seriousness of the injury, give first aid treatment if appropriate, and arrange for appropriate emergency response from outside emergency services, it warranted.
- 5. If soiled clothing cannot be removed, the injured person will be wrapped in a blanket while transported from the site.
- 6. The Health and Safety Officer shall monitor the affected person to determine whether there are symptoms resulting from the exposure or injury. If there is a visible manifestation of exposure such as skin irritation, the affected party shall be referred to a medical facility for treatment and evaluation as to whether the manifestation may be indicative of a delayed or acute exposure, a secondary response to exposure such as skin infection or occupational dermatitis. All incidents of injuries and/or obvious chemical exposure shall be evaluated by the Health and Safety Officer and the Owner's Consultant to determine whether modifications to work practices and/or protective provisions are warranted.

#### F. STANDARD SAFETY AND HEALTH PROCEDURES AND ENGINEERING CONTROLS

- 1. The following provisions shall be employed to promote overall safety, personnel hygiene and personnel decontamination:
  - a. Each contractor or subcontractor shall ensure that all safety equipment and protective clothing to be utilized by its personnel is maintained in a clean and readily accessible manner at the site.
  - b. All prescription eyeglasses in use on this project shall be safety glasses conforming to ANSI Standard Z87.1. No contact lenses shall be allowed on the site.
  - c. Prior to exiting the delineated Decontamination Zone(s), all personnel shall remove protective clothing, and place disposable items in appropriate disposal containers to be dedicated to that purpose. Following removal of PPE, personnel shall thoroughly wash and rinse their face, hands, arms and other exposed areas with soap and tap water wash and subsequent tap water rinse. A fresh supply of tap water shall be provided at the site on each work day by the Contractor for this purpose.
  - d. All PPE used on site shall be decontaminated or disposed of at the end of each work day. Discarded PPE shall be placed in sealed CTDOT-approved 55-gallon barrels for off-site disposal.
  - e. Respirators shall be dedicated to each employee, and not interchanged between workers without cleaning and sanitizing.
  - f. Eating, drinking, chewing gum or tobacco, smoking, and any other practice that increases the likelihood of hand to mouth contact shall be prohibited within the delineated remediation and decontamination work zones. Prior to performing these activities, each employee shall thoroughly cleanse their face, hands, arms and other exposed areas.

- g. All personnel shall thoroughly cleanse their face, hands, arms and other exposed areas prior to using toilet facilities.
- h. No alcohol, tobacco, illicit drugs or firearms will be allowed on the site at any time.
- i. All personnel that are on non-prescription (i.e., over-the-counter) or prescription medication of any kind shall notify the Health and Safety Officer prior to conducting work at the site. The Health and Safety Officer will make a determination as to whether such individuals will be allowed to work on the site, and, if so, in what capacity. The Health and Safety Officer may require signed documentation from the Individual's personal physician stating what limitations may be posed by the medication or condition that may apply to that individual's work activities.
- j. Contact with potentially contaminated surfaces should be avoided, if possible. Field personnel should minimize walking through standing water/puddles, mud or other wet or discolored surfaces; kneeling on ground; and placing equipment, materials or food on ground or other potentially contaminated surface.
- k. The use of the "Buddy System" shall be employed at all times while conducting work at the site. Each employee shall frequently monitor other workers for signs of heat stress or chemical exposure or fatigue; periodically examine others PPE for signs of wear or damage; routinely communicate with others; and notify the Site Safety Officer in the case of an emergency.

#### PART 2 - PRODUCTS

#### 2.0 MATERIALS AND EQUIPMENT

- A. All materials shall be delivered in the original packages, containers, or bundles bearing the name of the manufacturer and the brand name.
- B. House Keeping of Work Site
  - 1. The Contractor shall keep all surfaces as free as practical from accumulations of caulk, brick debris, mortar debris, and other waste materials during the remediation work.
  - 2. All loose caulk, brick, mortar, and other debris shall be thoroughly collected and securely containerized in the final waste receptacles at the conclusion of each work day.
  - 3. All disposable personal protective equipment shall be placed in the designated waste receptacles at the conclusion of each workday or at any time that such items are removed or changed.
- C. Damaged or deteriorating materials shall not be used and shall be removed from the premises. Materials that become contaminated with asbestos shall be decontaminated or disposed of as asbestos waste.
- D. Polyethylene sheet in a roll size to minimize the frequency of joints shall be delivered to job site with factory label indicating four (4) or six (6) mil.

- E. Tape or adhesive spray will be capable of sealing joints in adjacent polyethylene sheets and for attachment of polyethylene sheets to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including use of amended water.
- F. All proper labeling and placards for waste receptacles shall be maintained on site in a sufficient quantity to support the project.
- G. Orange construction fence and sufficient fence posts/stakes shall be maintained on site in a sufficient quantity to support the project.

#### 2.1 TOOLS AND EQUIPMENT

Provide suitable tools for PCB removal. Maintain a sufficient quantity of hand, pneumatic, tools to facilitate removal of PCB caulk, window frames and sashes, doorframes and louvers.

- A. The Contractor shall have air monitoring equipment of type and quantity to monitor operations and conduct personnel exposure surveillance per OSHA requirements.
- B. The Contractor shall have available sufficient inventory on site for materials necessary for the job including protective clothing, respirators, filter cartridges, polyethylene sheeting of proper size and thickness, tape, and air filters.
- C. The Contractor shall provide temporary electrical power sources such as generators (when required).
- D. Vacuum units, of suitable size and capacities for project, shall have HEPA filter(s) capable of trapping and retaining at least 99.97 percent of all mono-dispersed particles of 0.3 micrometers in diameter or larger.
- E. Negative air equipment of suitable size and capacities for project, shall have HEPA filter(s) capable of trapping and retaining at least 99.97 percent of all mono-dispersed particles of 0.3 micrometers in diameter or larger.

#### PART 3 - EXECUTION

#### 3.0 ABATEMENT ZONE WORK AREA PREPARATION

- A. The section of the building under remediation will be secured by an orange construction fence that surrounds the various areas while they are under remediation to prevent unauthorized access.
- B. The Remediation Contractor will set up polyethylene isolation barriers (critical barriers) with six (6)-mil polyethylene sheeting on the windows and doors from inside the building to separate work areas from other areas within the building.
- C. Prior to remediation, the Remediation Contractor shall establish the Abatement Zone, Decontamination Zone and Support Zone in accordance with this Specification.
- D. Within each Abatement Zone, shut down and/or isolate heating, cooling, and ventilation air systems or zones to prevent contamination and dispersal of PCB to other areas of the structure. Lock and tag out circuits associated with heating and cooling units.

- E. Materials scheduled for remediation will be remediated within work area containments consisting of two (2) layers of six (6)-mil polyethylene sheeting (or equivalent) as "isolation" barriers.
- F. The ground surface shall be protected from contamination by covering it with two (2) layers of six (6) mil polyethylene sheeting (or equivalent) at least ten (10) feet from the exterior wall and one (1) foot up the wall (except for soil remediation).
- G. All openings to the building within work area containments such as doors, windows, vents, louvers etc. shall be securely sealed with a single layer of 6-mil polyethylene sheeting.
- H. Ground protection and isolation barriers shall remain in place throughout work to collect debris resulting from PCB remediation. All debris generated during operations including but not limited to visible caulk/glazing compound, dust and debris shall be HEPA vacuumed continuously throughout the work shift and at the end of the work shift to avoid accumulation. Any tears or rips that occur in polyethylene barriers shall be repaired or removed and replaced with new protections.
- I. All equipment utilized to perform cutting, or demolition of adjacent materials shall be equipped with appropriate dust collection systems. All visible dust shall be removed using HEPA vacuums and wet cleaning methods with solvent or other acceptable products.
- J. Post all approaches to each work area with PCB Warning signs. Warning signs shall be of size and type that are easily readable and are visible from all approaches to the work areas.
- K. Each work area shall contain an access log in order to maintain a list of personnel accessing the work area. Each person entering and exiting the work area shall sign the access log.

#### 3.1 DECONTAMINATION ENCLOSURE SYSTEMS

- A. The Contractor shall establish a three-chamber personnel and equipment decontamination enclosure system associated with each work area. Access between the contaminated and uncontaminated areas shall be through this decontamination enclosure only. The decontamination system shall be constructed of two layers of six (6)-mil polyethylene sheeting (or equivalent) and will have "dirty room" "shower room" and "clean room" in succession walking from the work area to outside. The "shower room" shall have provision from hot and cold water.
- B. Equipment to be utilized in connection with the caulk and glazing remediation, waste collection, or that will or may come in direct contact with the site contaminants shall be decontaminated prior to leaving the site to prevent migration of the contaminated residues from the project site. The Remediation Contractor shall address the specifics of equipment decontamination in their Site Specific Health and Safety Plan.
- C. All non-disposable equipment and tools employed in the course of the project will be cleaned <u>and left inside of the work area containment</u> at the conclusion of each work day through the following sequence:
  - 1. Initial tap water rinse, to remove gross debris
  - 2. Tap water and Alconox wash
  - 3. Second tap water rinse
  - 4. Second tap water and Alconox wash
  - 5. Final tap water rinse

D. The wash water and decontamination liquids shall be captured and containerized in 55-gallon barrels for off-site disposal.

#### 3.2 REMEDIATION OF WINDOW SYSTEMS

- A. The Remediation Contractor shall establish the Abatement Zone and Decontamination Zone in accordance with this Specification prior to the remediation of window and door systems.
- B. The Remediation Contractor shall remove operable steel sashes with grey glazing compound from window openings and wrap and seal with two (2) layers of six (6) mil polyethylene (or equivalent) sheeting for disposal in accordance with the Site Characterization presented in Section 1.3 of this specification. If fixed sashes are present, remove with window sash with the window frame.
- C. The Remediation Contractor shall remove steel window frames with grey caulking compound from window openings and wrap and seal with two (2) layers of six (6) mil polyethylene sheeting (or equivalent) for disposal in accordance with the Site Characterization presented in Section 1.3 of this specification. If fixed sashes are present, removed the sash with the frame and seal.
- D. The remediation Contractor shall remove fasteners from window frames to facilitate removal of the frames. Where necessary, cut window frames into manageable sections. Dispose of in accordance with the Waste Characterization presented in Section 1.3 of this specification.

#### 3.3 REMEDIATION OF SEAM CAULKS

- A. The Remediation Contractor shall establish the Abatement Zone and Decontamination Zone in accordance with this Specification prior to the remediation of seam caulks.
- B. The Remediation Contractor shall remove seam caulks from the foundation seams, the seams and cracks in walls, and the expansion joints in conjunction with the remediation of PCB contaminated substrates specified in Section 3.6 below and dispose of in accordance with the Waste Characterization presented in Section 1.3 of this specification.

#### 3.4 REMEDIATION OF PCB CONTAMINATED SUBSTRATES FROM WINDOW OPENINGS

- A. The Remediation Contractor shall establish the Abatement Zone and Decontamination Zone in accordance with this Specification prior to the remediation of window caulks and contaminated substrates.
- B. Brick and mortar previously in contact with grey window caulk (Course 1) will be assumed to be contaminated by the caulk. After the removal of window systems, course 1 brick and mortar shall be removed from window openings and handled and disposed of in accordance with the Waste Characterization presented in Section 1.3 of this specification.
- C. Course 2 brick and mortar shall be removed from the window opening at Façade B (north side) of the building and handled and disposed of in accordance with the Waste Characterization presented in Section 1.3 of this specification.

#### 3.5 REMEDIATION OF CAULK AND PCB CONTAMINATED SUBSTRATES FROM SEAMS

- A. The Remediation Contractor shall establish the Abatement Zone and Decontamination Zone in accordance with this Specification prior to the remediation of seam caulks and contaminated substrates.
- B. Brick and mortar previously in contact with grey seam caulk in the foundation seams, the exterior wall seams and cracks, and the expansion joint (Course 1) will be assumed to be contaminated by the caulk.
- C. Concrete previously in contact with grey seam caulk in the foundation seams, the exterior wall seams and cracks, and the expansion joint (Course 1) will be assumed to be contaminated by the caulk on Façade D (south side) only.
  - 1. Course 1 brick and mortar shall be removed from either side of the caulked cracks and seams in the exterior walls of the building along with the caulk and handled and disposed of in accordance with the Waste Characterization presented in Section 1.3 of this specification.
  - 2. Course 1 brick and mortar shall be removed from either side of the caulked expansion joint on the exterior wall of the building along with the caulk and handled and disposed of in accordance with the Waste Characterization presented in Section 1.3 of this specification. Course 1 concrete shall be removed from the bottom of the caulked expansion joint where it contacts the foundation and handled and disposed of in accordance with the Waste Characterization presented in Section 1.3 of this specification.
  - 3. Course 1 brick and mortar shall be removed from the top of the caulked foundation seams on the exterior wall of the building along with the caulk and handled and disposed of in accordance with the Waste Characterization presented in Section 1.3 of this specification. Course 1 concrete shall be removed from the bottom of the caulked foundation caulk where it contacts the foundation on Side D only and handled and disposed of in accordance with the Waste Characterization presented in Section 1.3 of this specification.
  - 4. Course 1 concrete shall be removed from either side of the caulked seams in the exterior foundation walls of Side D (south side) the building along with the caulk and handled and disposed of in accordance with the Waste Characterization presented in Section 1.3 of this specification.
  - 5. Residual caulk shall be cleaned from the concrete where caulk has been removed on Side B.
- D. Steel lintels and I-Beams previously in contact with grey seam caulk on Side B (north side) will be cleaned of contamination using solvents as required.

#### 3.6 REMEDIATION OF PCB CONTAMINATED SOIL

- A. The Remediation Contractor shall establish the Abatement Zone and Decontamination Zone in accordance with this Specification prior to the remediation of PCB contaminated soil.
- B. Soil shall be removed from Areas 2, 4, 5, 6, and 7 at Façade D (south side) of the building and handled and disposed of in accordance with the Waste Characterization presented in Section 1.3 of this specification.
- C. The Remediation Contractor shall remove soil down to a depth of four (4) inches from the surface using a flat shovel.

- D. The Remediation Contractor shall begin soil removal at the closest point to the building working outward and away from the building. The Remediation Contractor shall avoid tracking back over remediated soil areas.
- E. The Remediation Contractor shall immediately containerize soil for disposal as PCB Remediation waste. Properly label containers prior to removal from the Abatement Zone.
- F. Soil disposal containers shall be thoroughly decontaminated prior to transport from the Decontamination Zone.
- G. Verification soil sampling will be performed in accordance with 40 CFR 761 Subpart O.

#### 3.7 ON-SITE WASTE MANAGEMENT

#### A. SOLID HAZARDOUS WASTES

- 1. All solid waste material containment system components, used personnel protective equipment, and other solid wastes generated during the work, shall be placed directly in appropriate waste receptacles immediately upon removal from its in-situ position. Suitable waste receptacles may consist of roll-off containers or CTDOT-approved 55-gallon barrels.
- 2. If roll-off containers are to be utilized for containerization of the remediation wastes, the following shall apply:
  - a. All roll off containers or other similar vessels utilized shall be leak tight and lined with 6-mil polyethylene sheeting or equivalent impermeable lining, and equipped with a secured and impermeable cover.
  - b. The impermeable cover shall remain securely in place at all times when material is not being actively placed in the vessels. The contractor shall be responsible for ensuring that the cover remains securely intact until the container is removed from the site.
- 3. If 55-gallon barrels are to be utilized for waste containerization, the barrels shall consists of suitable DOT-approved 55-gallon barrels that are watertight and free of corrosion, perforations, punctures, or other damage. All barrels shall have ring lock lids and shall be sealed at the conclusion of each work day.
- 4. The waste containers shall remain staged at the site with a secure impermeable cover in place until the materials are transported from the site to be delivered to the designated disposal facility.
- 5. A waste roll off and barrel staging area shall be designated prior to initiation of the remediation work, and approved by the Owner's Consultant.
- 6. The waste stream classifications are summarized in Section 1.2.F of this specification.

#### B. DECONTAMINATION FLUIDS AND LIQUID WASTE MATERIALS

1. Under no circumstances shall decontamination fluids or liquid wastes be discharged to the ground surface or subsurface at the site.

- 2. Liquid materials, including equipment or personal decontamination fluids or similar liquids generated during work at the site shall be placed directly into appropriately sized and sealed vessels immediately upon generation.
- 3. Acceptable vessels for the storage of liquid wastes may include DOT approved 55-gallon barrels, steel or polyethylene tanks, fractioning tanks or tank trucks. All proposed vessels shall be compatible with the intended liquid contents.
- 4. Container staging areas shall be designated prior to initiation of the removal work and approved by the Owner's Consultant.
- 5. All storage vessels to be used in the containerization and transportation of liquid waste materials shall be free of corrosion, perforations, punctures or other condition that may impair its ability to securely contain liquid.
- 6. Temporary staging of liquid waste vessels at the site shall be in a manner that will prevent freezing of contained liquids. Should the potential exist for liquid containers to freeze during exterior storage at the site, arrangements shall be made with the Owner's Consultant to identify and utilize an appropriate alternate storage location acceptable to the Owner's Consultant.
- 7. All liquid storage vessels utilized and staged at the site shall be stored in an area on the property that will not interfere with facility operations or normal flow of vehicle or pedestrian traffic, and in a manner that will minimize the potential for tipping, vandalism or damage by vehicular traffic.
- 8. All characterization of waste, testing, analytical fees for disposal purposes shall be borne by the Remediation Contractor.

#### C. LABELING OF WASTE CONTAINERS

1. Labeling and marking of PCB Wastes shall be in accordance with 40 CFR 761.40 and 40 CFR 761.45.

#### 3.8 WASTE TRANSPORTATION AND DISPOSAL

- A. All waste packaging, labeling and transportation activities shall be performed in accordance with applicable State of Connecticut and US Department of Transportation Regulations at 49 CFR Parts 171, 172, 173, 177, and 178, and any and all other applicable federal, state and local laws and regulations.
- B. All hazardous wastes shall be shipped using state-specific standard manifest documents. The Contractor shall supply and complete the manifest documents in accordance with all applicable state and federal regulations. All manifest documents shall be signed by a representative of the Owner and appropriate copes shall be provided to the Owner's representative prior to removing the waste from the site
- C. The Contractor or their designated waste disposal subcontractor providing waste transportation services shall possess a valid Waste Hauler's Permit issued by the State of Connecticut Department of Energy Environmental Protection (CTDEEP). In addition, if the waste is to be transported and disposed of out of Connecticut State, applicable permits for those states or territories through which the waste will be transported and for where it will be disposed will be required. It is the responsibility of the Contractor to identify the appropriate disposal facility and

associated travel route(s) and to identify the pertinent permits that will be required and to provide copies of the applicable permits to the Owner's Consultant prior to removing the waste from the site.

- D. The Remediation Contractor shall be responsible for applying for, obtaining and payment of all permits and temporary hazardous waste generator identification numbers to support the project.
- E. Refer to Section 02080 Asbestos Removal for additional requirements.

#### 3.9 CERTIFICATION OF REMEDIATION WORK

- A. The Contractor shall certify in writing to the Owner's Consultant that all remediation work and waste disposal has been completed in accordance with this specification and all applicable federal and state regulations.
- B. The Contractor shall certify in writing to the Owner's Consultant that each piece of equipment used in the Abatement zones or which has come in or potential come Into contact with contaminated material has been decontaminated prior to removal from the site.

#### 3.10 OWNER'S CONSULTANT POST REMEDIATION VERIFICATION

- A. Upon completion of work, a thorough visual inspection of all remediated surfaces for visible evidence of dust and debris shall be performed. Surfaces shall also be inspected for visible PCB source materials that may not have been removed.
- B. Visual inspection shall ensure that no visible dust or debris is present on adjacent surfaces where sources and substrates were removed. In addition to the remediated surfaces, the surfaces of protective coverings and isolation barriers shall be inspected to ensure they are cleaned of dust and debris.
- C. Since scheduled window systems, doorframes, ventilation louvers, portable A/C units, and all substrate materials in contact with source materials that contain PCB in excess of one (1) ppm will be removed in their entirety, the visual inspection shall provide verification that remediation work has been completed in accordance with this SIP.
- D. Upon successful completion of the visual inspection, sampling in accordance with the requirements of 40 CFR Subpart O will be conducted in Areas 2, 4, 5, 6, and 7 to verify completion of the soil remediation. Sampling of the soil in accordance with 40 CFR Subpart N will be conducted in Areas 1 and 3 to verify that the soil is not contaminated.
- E. Wipe sampling of encapsulated substrate surfaces shall also be performed. This shall include structural steel if applicable and interior CMU/mortar. Wipe samples shall be chemically extracted for PCBs using Methods 3500B/3540C of SW-846. Samples shall be analyzed utilizing Method SW-846 8082.

END OF SECTION 02110

## APPENDIX E

CONTRACTOR'S HEALTH & SAFETY PLAN (HASP)(TO BE PREPARED BY THE SELECTED CONTRACTOR)